

BARNARD COLLEGE

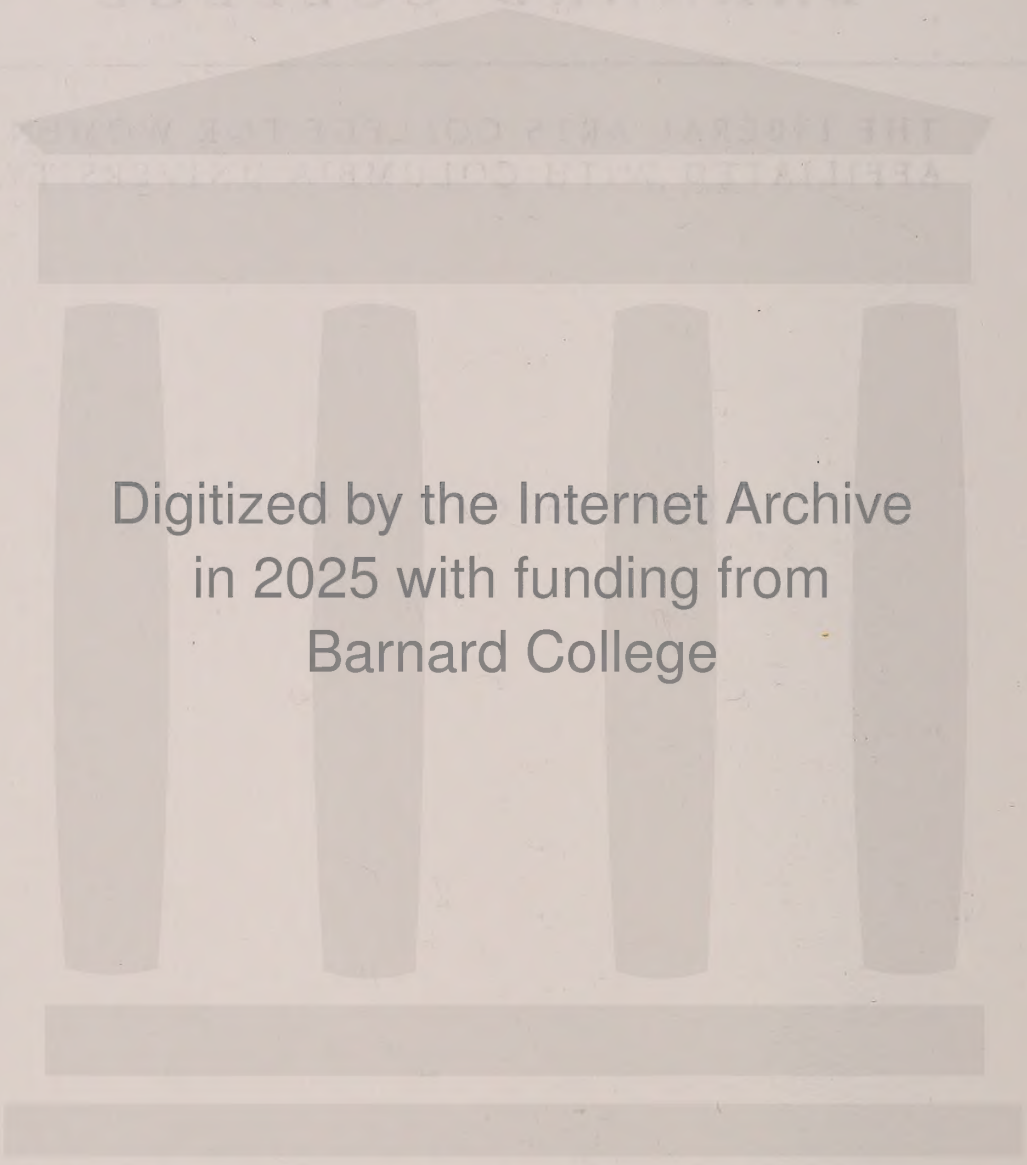
1995-96 CATALOGUE

BARNARD COLLEGE

THE LIBERAL ARTS COLLEGE FOR WOMEN
AFFILIATED WITH COLUMBIA UNIVERSITY

1995-96 CATALOGUE

BARNARD COLLEGE • 3009 BROADWAY • NEW YORK, NY 10027-6598



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COLLEGE CALENDAR 1995-96

AUTUMN TERM — ONE HUNDRED AND SEVENTH YEAR

First-year and transfer student registration ..... Aug. 30, 31 (W, Th)

Language Placement Examinations ..... Sept. 1 (F)

Upper-class registration ..... Sept. 1, 5, 6 (F, Tu W)

Classes begin 9 a.m. ..... Sept. 5 (Tu)

Last day to submit work for courses in which grades of I were given in the Spring term, 1995 ..... Sept. 5 (Tu)

Deferred examinations for students absent from May 1995 final examinations in Barnard courses. Deferred examinations for C, F, G, W, and other Columbia courses must be taken before the end of the semester ..... Sept. 8, 11 (F, M)

Program filing. Last day to file Autumn term programs, 5 p.m. ..... Sept. 15 (F)

Last day to add a course ..... Sept. 15 (F)

Last day to file diploma name cards for the degree in February 1996 ..... Oct. 4 (W)

Awarding of October degrees ..... Oct. 18 (W)

Midterm Date ..... Oct. 19 (Th)

Academic holiday ..... Nov. 6 (M)

Election Day holiday ..... Nov. 7 (Tu)

Major examinations for February graduates ..... Nov. 8-10 (W-F)

Required meetings for planning programs ..... Nov. 9 (Th)

Program planning and sign-up period for all students ..... Nov. 9-30 (Th-Th)

Last day to drop a course ..... Nov. 16 (Th)

Last day to file requests for Pass/D/Fail grades ..... Nov. 16 (Th)

Thanksgiving holidays ..... Nov. 23-26 (Th-Sun)

Last day for first-year students and first-semester sophomores to file tentative Spring term programs with their advisers ..... Nov. 30 (Th)

Last day to withdraw from a course ..... Dec. 7 (Th)

Required reading days ..... Dec. 12-14 (Tu, W, Th)

Last day to file a request for an Incomplete. In a course where final paper is due on an earlier date, request must be filed no later than the day before the paper is due ..... Dec. 11 (M)

Last day for payment of bill for Spring term ..... Dec. 15 (F)

Mid-year Examinations Begin ..... Dec. 15 (F)

Autumn term ends ..... Dec. 22 (F)

Winter recess ..... Dec. 23-Jan. 15, 1996 (Sat-Mon)

SPRING TERM — ONE HUNDRED AND SEVENTH YEAR

Deferred examinations for students absent from December 1995 final examinations in Barnard courses. Deferred examinations for C, F, G, W, and other Columbia courses must be taken before the end of the semester. ..... Jan. 11, 12 (Th, F)

Registration ..... Jan. 12, 16, 17 (F, Tu, W)

Last day to submit to the Registrar work from Autumn term 1995 for removal of I ..... Jan. 12 (F)

Language Placement Examinations ..... Jan. 12 (F)

Martin Luther King Day holiday ..... Jan. 15 (M)

Classes begin 9 a.m. ..... Jan. 16 (Tu)

Program filing. Last day to file Spring term programs, 5 p.m. ..... Jan. 26 (F)

Last day to add a course ..... Jan. 26 (F)

Last day to file diploma name cards for the degree in May 1996 or October 1996 ..... Feb. 2 (F)

Awarding of February degrees ..... Feb. 14 (W)

Last day to submit 1996-97 Senior Scholar applications ..... Feb. 22 (Th)

Midterm Date ..... Feb. 29 (Th)

Spring holidays ..... Mar. 9-17 (Sat-Sun)

Last day to drop a course ..... Mar. 21 (Th)

Last day to file requests for Pass/D/Fail grades ..... Mar. 21 (Th)

Major examinations for May and October graduates ..... Mar. 27-29 (W-F)

Required meetings for planning programs ..... April 4 (Th)

Program planning and sign-up period for all students ..... April 4-26 (Th-F)

Last day to file application for 1996-97 financial aid ..... April 15 (M)

Last day for sophomores to declare majors ..... April 15 (M)

Last day to withdraw from a course ..... April 24 (W)

Phi Beta Kappa–Honors Convocation ..... April 25 (Th)

Last day for first-year students to file tentative Autumn term programs with their advisers ..... April 25 (Th)

Last day to file a request for an Incomplete. In a course where final paper is due on an earlier date, request must be filed no later than the day before the paper is due ..... April 29 (M)

Required reading period ..... April 30, May 1, 2 (Tu-Th)

Final Examinations Begin ..... May 3 (F)

Spring term ends ..... May 10 (F)

Baccalaureate Service ..... May 12 (Sun)

Presentation of Barnard Degree Candidates ..... May 14 (Tu)

Conferring of Degrees ..... May 15 (W)

Last day to file application for deferred examinations in Barnard courses ..... May 17 (F)

Last day to submit to the Registrar work from Spring term 1996 for removal of I ..... June 4 (Tu)

Classes begin 9 a.m. ..... Sept. 3 (Tu)

CALENDAR

1995

January

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DIRECTORY

Information 854-5262
104 Barnard

Office of Admissions 854-2014
111 Milbank

Advisers, Class 854-2024
105 Milbank

Office of Alumnae Affairs 854-2005
224 Milbank

Barnard Center for Research on Women 854-2067
101 Barnard

Bursar 854-2026
15 Milbank

Office of Career Services 854-2033
11 Milbank

Office of College Activities 854-2096
209 McIntosh

Dean of the Faculty 854-2708
110 Milbank

Dean of Student Life 854-3095
210 McIntosh

Dean of Studies 854-2024
105 Milbank

Dining Services 854-2129
Lower Level Hewitt

Disability Services 854-4634
7 Milbank *(Voice/TDD)*

Financial Aid 854-2154
14 Milbank

Health Services 854-2091
Lower Level Brooks

Higher Education Opportunity Program (HEOP) 854-3583
5 Milbank

Housing Office 854-3040
203/205 Sulzberger

International Student Advisers 854-2024
105 Milbank

Study Abroad 854-2024
105 Milbank

Pre-College Programs 854-8866
8 Milbank

President's Office 854-2021
109 Milbank

Registrar 854-2011
107 Milbank

Security 854-3362
104 Barnard

Office of Summer Programs 854-8021
203 Sulzberger

Student Mail 854-2095
McIntosh

Transfer Student Services 854-2024
105 Milbank

Transcript Service 854-2011
107 Milbank

THE COLLEGE

Barnard is a selective liberal arts college for women, affiliated with Columbia University and integrally related to its hometown of New York City. Barnard is committed to the liberal arts and sciences—a commitment reflected in its curriculum and in the atmosphere of learning and scholarship that permeates its campus.

As a university college in an international city, Barnard offers an education enriched immeasurably by the vast social and cultural resources of New York and the academic resources of Columbia, located just across the street.

More than 50 years ago, Virginia C. Gildersleeve, dean of Barnard from 1911-47, said of New York City, "It is a wonderful place in which to run a college...its museums, its theatres, its concert halls, its operas, its government agencies, its business marts, its great public institutions of a hundred kinds...form laboratories and adjuncts to academic halls." Today the city remains an extension of the campus, used by every department to enhance the relationships of learning to living.

The College seeks women who will benefit most from the Barnard experience: a diverse group of motivated and curious young women who will draw from its deep well of opportunity and contribute to its stimulating community.

BARNARD'S HISTORY

Barnard College was among the pioneers in the late 19th-century crusade to make higher education available to young women.

The College grew out of the idea, first proposed by Columbia University's tenth president, Frederick A.P. Barnard, that women have an opportunity for higher education at Columbia. The idea, initially ignored, led to the creation of a "Collegiate Course for Women." Although highly qualified women were authorized to follow a prescribed course of study leading ultimately to Columbia University degrees, no provision was made for where and how they were to pursue their studies. It was six years before Columbia's trustees agreed to the establishment of an affiliated college for women. A provisional charter was secured and Barnard College was named in honor of its most persistent advocate.

In October 1889, the first Barnard class met in a rented brownstone house at 343 Madison Avenue. Fourteen students enrolled in the School of Arts and 22 "specials," lacking the entrance requirements in Greek, enrolled in science. There was a faculty of six.

Nine years later Barnard moved to its present site on Morningside Heights. In 1900 Barnard was included in the educational system of Columbia University with provisions unique among women's colleges: it was governed by its own Trustees, Faculty, and Dean, and was responsible for its own endowment and facilities, while sharing instruction, the library, and the degree of the University.

BARNARD TODAY

From the original 14 students, enrollment has grown to 2,200, with almost 28,000 Barnard students awarded degrees since 1893. Barnard's faculty of 264 men and women are teacher-scholars whose paramount concern is the education of undergraduate students and whose professional achievements bring added vitality to the classroom.

Barnard's liberal education is broad in scope and demanding. The curriculum includes a series of general education requirements—a program of courses the Faculty believes provides a stimulating and thorough education while remaining flexible and varied enough to suit a student's own interests, strengths, and talents. Classes vary in size. Those in which student participation is important are small. There are opportunities for independent work and students may be invited to work on research projects with faculty members.

In 1988 Barnard College and Columbia University amended and extended the long-standing agreement for cooperation between the institutions. Barnard stands as an independent college for women with its own curriculum, faculty, admissions standards, graduation requirements, trustees, endowment, and physical plant. At the same time, Barnard and Columbia share resources, thereby giving students open access to the courses, facilities, and libraries of both schools. Barnard and Columbia students also share in a variety of extracurricular activities and social lives.

From its inception Barnard's foremost commitment has been to the academic, personal, and professional success of women. Students benefit from an atmosphere in which over half of the tenured faculty are women, and women are well represented in the administration. The College is led by Judith R. Shapiro, anthropologist and former provost of Bryn Mawr. At Barnard, women are given the opportunities and the freedom to lead both in and out of the classroom, to develop the skills that equip them to lead throughout their lives.

Barnard's unique relationship with Columbia—as well as its ties to several of Columbia's graduate schools and its programs with premier New York City institutions including the Juilliard School, the Manhattan School of Music, the Jewish Theological Seminary of America, and Teachers College—gives students an unusual range of educational options. Academic organizations within and beyond the University offer vital opportunities for research, study, studio experience, career internships, and community service.

Barnard has a high student retention rate, an indication of their satisfaction with their college experience. Barnard students also enjoy leaves for study, travel, and internships. Every year Barnard admits about 100 transfer students, who come to take advantage of the educational opportunities available to Barnard women.

Every year the Office of Career Services collects and summarizes information about post-baccalaureate study and employment. In the first year after graduation, between one-fourth and one-third of those who receive the degree enter full-time graduate or professional study at once, with the largest proportions opting for medical schools, law schools, and business schools. The rest obtain employment in business and industry, the arts, communications, teaching, social services, and other fields.

THE CAMPUS

The Barnard campus occupies four acres of urban property along Broadway between 116th and 120th Streets. At the southern end of the campus, four residence buildings, including the College's newest building, Sulzberger Hall, form an enclosed quadrangle.

Barnard Hall is just north of the "Quad" and contains seminar rooms, classrooms, and faculty offices, as well as a gym, a swimming pool, and dance studios. The Sulzberger Parlor on the third floor is used for meetings and small social events.

Adele Lehman Hall contains the Wollman Library and two floors of faculty offices and classrooms. The library includes the reserve room and the Lehman Computer Center on the first floor; the reference area, periodicals, microforms, and open book stacks on the second floor; and on the third floor, audiovisual facilities and more open stacks. Computer facilities for the Economics and Political Science departments are also located in Lehman. The building overlooks a lawn surrounded by trees and shrubs.

Helen Goodhart Altschul Hall and the Millicent McIntosh Center face each other across an open plaza. The 14 stories of Altschul Hall are devoted primarily to the sciences and mathematics. Herbert H. Lehman Auditorium is on the first floor. The headquarters for student activities, a snack bar, and a lounge are located in the McIntosh Center, as well as student mailboxes, music practice rooms, a bowling alley, and the Jean T. Palmer Room for conferences.

Milbank Hall occupies the northern end of the campus and houses administrative and faculty offices, classrooms, a greenhouse, and the Minor Latham Playhouse, a small, well-equipped modern theatre. The language departments maintain social and reading rooms in Milbank Hall.

In the immediate neighborhood, Barnard maintains additional residence halls, including Plimpton Hall and Elliott Hall, and 600, 616, and 620 West 116th Street, all apartment buildings. The College also rents additional spaces at 601 West 110th Street.

Columbia University is directly across the street on Broadway.

WOLLMAN LIBRARY AND OTHER LIBRARY RESOURCES

The Wollman Library occupies the first three floors of Adele Lehman Hall; the Archives is located on the tunnel level. The Library's collection of more than 160,000 volumes contains books and periodicals intended to serve the curricular needs of the undergraduate students at Barnard. The Library's Media collection includes over 1,500 instructional videocassettes as well as audio materials and musical scores. In addition, the Library provides access to a variety of indexes and texts in electronic format. Reserve materials required for course reading are located on the first floor.

Special collections in the Library include the Barnard Archives, a historical collection of official and student publications, documents, letters, and photographs from Barnard's founding in 1889 to the present; an Alumnae Collection of selected works by former Barnard students; the personal library of Nobel Prize-winning Chilean poet Gabriela Mistral; the Overbury Collection of 3,300 books and manuscripts by and about American women authors, and a small rare book collection. The Library has an especially strong collection in women's studies which is supplemented by the resource collection of the Barnard Center for Research on Women. A separate Chemistry Reading Room is located in Altschul Hall.

During the academic year the Library is open seven days a week, providing a full range of services. The Reference Department offers an ongoing instructional program, including workshops, in-class lectures, and individual consultations designed to help each student develop efficient library and research skills.

In addition to the standard print research materials, the Library provides access to many electronic information sources. CLIO is a computerized catalog containing the holdings of the entire Columbia University Library system, including Barnard, from 1981 to the present, with earlier materials being added on an ongoing basis. Students can also perform on-line searches of a wide variety of periodical indexes as well as of NEXIS, the comprehensive full-text on-line news and legal database. Among the Library's other electronic resources are: *Video Encyclopedia of the 20th Century*, a laserdisc collection of historic newsreel footage dating from 1893-1988; electronic texts such as the complete works of Shakespeare, the *Bible*, and the *Constitution*; hypertext programs such as *Culture 2.0*, *Darwin on Disk, Poesia Hispanamericana;* and more.

Barnard students also have access to all Columbia University libraries, with more than 6 million books, 3.5 million microforms, over 58,000 serials and periodicals, and a variety of CD-ROMs, as well as to the libraries of Teachers College and Union Theological Seminary. In addition, students may use the many libraries and collections in the metropolitan area, either through public access or special referral.

COMPUTING AND NETWORK SYSTEMS

The Office of Computing and Network Systems provides computer resources to all Barnard students. We maintain the Barnard computer network and operate three computer laboratories. The main lab, located at 112 Lehman Hall, houses PC's, MacIntoshes, and laser printers. Student consultants are available in the Lehman lab to assist students with any questions or problems they may have. Additional facilities are located in Sulzberger and Brooks residence halls. All computers in the labs connect to CLIO (on-line library information) and CNET. There are currently 60 public access computers on campus.

THE BARNARD CENTER FOR RESEARCH ON WOMEN

The Barnard Center for Research on Women, located in 101 Barnard Hall, was founded in 1971 to express Barnard's longtime commitment to women and to show Barnard's enthusiasm for the new women's movement. Today, the Center is a nationally recognized research institute that extends its resources to all members of the Barnard community as well as to the public.

Through a wide range of programs, conferences, lectures, and seminars, the Center generates and publicizes advanced research in feminist scholarship and attracts to Barnard outstanding women in public life.

The series *Speaking of Women...* each week brings Barnard faculty, outside scholars, and activists to the Center for informal discussions on a wide range of women's issues. The Reid Lectureship features a series of talks and seminars by distinguished women in public life and the arts who have shown a significant commitment to improving the lives of all women. The Scholar and the Feminist, a day-long annual conference, addresses the conjuncture of feminist scholarship and activism in women's issues. To provide the results of the research and experience presented in the Center's conferences and lectures, the Center publishes *The Barnard Occasional Papers on Women's Issues*.

The Center's collection and reading room are an important resource for members of the Barnard community and for the general public. Students regularly use the Center as a meeting place, as do faculty and staff.

The collection contains thousands of books concerning women and gender, and subscribes to over one hundred feminist periodicals. Collections of published articles, unpublished articles, newspaper clippings, special newsletters and reports, information on local, national, and international women's organizations, information about interships, and materials about women's studies programs throughout the country round out the collection.

STUDENT LIFE

Barnard students soon discover that their classmates are among the principal resources of their undergraduate years. Cosmopolitan in nature, the student population includes residents of nearly every state and some 50 foreign countries as well as those who live within commuting distance. Diversity is one of the few generalizations that can be made safely about Barnard students; a mingling of economic, regional, ethnic, and cultural groups is evident in campus life. Nine out of 10 students live in college housing and participate in the educational programs, cultural events, and social activities of their residence halls.

STUDENT GOVERNMENT AND CAMPUS ORGANIZATIONS

Student participation in the governance of the College and in shaping student life on campus is a time-honored tradition at Barnard. College committees, on which students, faculty, and administrators serve, recommend policy and procedural changes in such areas as curriculum, housing, and college activities. Students are the majority members on Honor Board and Judicial Council. Two students serve as representatives to the Board of Trustees.

All Barnard students are members of the Student Government Association, which elects a representative government and sponsors extracurricular activities and special events reflecting the range of cultural, political, pre-professional, and academic interests of the student body. These groups, more than 80 in all, include theatre and vocal music groups, ethnic organizations, language clubs, community service groups, and yearbook and literary magazine staffs. The student newspaper, *Barnard Bulletin*, is published weekly. Students with a variety of talents collaborate to produce Winter and Spring Festivals featuring concerts, theatre and dance performances, art exhibitions, and social events.

Student activities emanate from McIntosh Student Center, which houses the offices of College Activities, Student Life, the Student Government Association, and other clubs and organizations. The Center also includes the student mailroom, a snack bar, the commuter lounge, music practice rooms, darkroom, computer publications room, pottery studio, bowling alley, radio station, and the student store. The McIntosh Ticket Booth offers students the opportunity to attend professional dance, theatre, opera, and sports in New York at reasonable prices. Students in many academic disciplines supplement course work with department-sponsored programs, lectures, and performances during the school year.

In the residence halls, Student Hall Councils elected by the residents, plan social events and establish certain policies and procedures for use of public spaces and rules of conduct for residents, other members of the community, and guests.

Cooperation among Barnard and Columbia groups is common. Many activities such as the University's chorus and its orchestra, its radio station, and a community service program enlist members from both campuses. Religious organizations and activities with headquarters on the Columbia University campus at Earl Hall encompass nearly every faith and are open to all Barnard students. Urban New York, a joint Barnard-Columbia program, offers unusual opportunities for students, faculty, and staff to experience together the cultural, political, and social life of the city.

SPORTS AND ATHLETICS

The Columbia University/Barnard College Athletic Consortium (Division I of the NCAA) sponsors 11 women's varsity teams, including Archery, Basketball, Crew, Cross Country, Fencing, Soccer, Swimming and Diving, Tennis, Indoor and Outdoor Track and Field, and Volleyball. The Athletic Consortium is just one of three in the nation and the only one on a Division I level. Women students at Barnard College along with women enrolled at the undergraduate divisions of Columbia University have the opportunity to compete on all university-wide teams. Scheduled competition includes schools in the Ivy League,

the Seven Sisters, the metropolitan area, and the eastern region. Individuals and teams have the opportunity to advance to state, regional, and national competition.

For students interested in less competitive programs, the Physical Education Department offers an extensive program of intramurals, recreation, and club sports. The program features basketball, indoor soccer, volleyball, open gym time, recreational swimming, sports clubs, open weight room hours, and special events.

Barnard facilities include a swimming pool, gymnasium, running track, fencing and dance studios in Barnard Hall, and tennis courts just one block away in Riverside Park. Barnard students have access to all recreational and athletic facilities of the University as well. The Dodge Fitness Center includes the Levien Gymnasium, with a seating capacity of 3,499; the eight-lane Uris Swimming Center; 17 squash and handball courts; a well-equipped training room; and locker rooms and sauna. Women's intercollegiate and club teams also use outdoor facilities at Baker Field, a 26-acre complex at the northern tip of Manhattan that includes a new 20,000-seat stadium with an eight-lane, all-weather NCAA-regulation running track and practice fields. There are seven composition tennis courts and a modern tennis clubhouse, facilities for crew, and a spacious field house.

STUDENT CONDUCT

The Honor Code, instituted at Barnard in 1912, governs all aspects of academic life and is enforced by an Honor Board that has a membership of students and faculty members, advised by the Dean of Studies. The Judicial Council of undergraduates, faculty, and administrators recommends disciplinary action for non-academic offenses and acts on appeals of academic disciplinary sanctions determined by the Honor Board. A more complete explanation of the system may be found in the *College Calendar and Student Handbook*.

Each student who registers at Barnard agrees to maintain the Honor Code, which states:

> *We, the students of Barnard College, resolve to uphold the honor of the College by refraining from every form of dishonesty in our academic life. We consider it dishonest to ask for, give, or receive help in examinations or quizzes, or to use any papers or books not authorized by the instructor, or to present oral or written work that is not entirely our own, except in such a way as may be approved by the instructor. We consider it dishonest to remove without authorization, alter, or deface library and other academic materials. We pledge to do all that is in our power to create a spirit of honesty and honor for its own sake.*

Library regulations and independent study courses are also governed by the code.

Policies and regulations concerning student conduct are recommended by student, faculty, and administrative committees to the appropriate administrators, the President, and the Board of Trustees. Hearing and appeal procedures are also outlined in the *College Calendar and Student Handbook*.

Enrollment in the College, award of academic credit, and conferral of the degree are subject to disciplinary powers vested by the Barnard Board of Trustees in appropriate officers of instruction and of administration and in College committees.

RESIDENTIAL LIFE

Barnard maintains a diversified residence program. Residence options include traditional residence halls, a variety of suite arrangements, and apartments in College-owned buildings on or adjacent to the campus. In a cooperative exchange with Columbia College and the School of Engineering and Applied Sciences, a number of coeducational arrangements are

available. In addition, some students live in independent housing they secure in the campus vicinity. The College offers all incoming first-year students the opportunity to elect to live in campus housing. In all, about 90% of the student body live in College housing, the rest choosing to commute. Policies regarding eligibility for housing and manner of assignments are formulated by the College Housing Committee, with a membership of students, faculty, and administrators.

FACILITIES

The College provides in its residence halls supervision under the direction of the Dean of Student Life. This includes directors, graduate and undergraduate student assistants, 24-hour desk attendant coverage, and regular security guard patrols.

Brooks, Hewitt, Reid, and Sulzberger Halls, or the "Quad," at the south end of the campus, are operated as a single complex with space for about 930 students. Sulzberger Hall, opened in 1988, completed this residential complex and provides community amenities as well, including computer rooms and a café. The first eight floors of Sulzberger Hall, Reid, Brooks, and Hewitt house first-year students, who are assigned to double, triple, and quad rooms. The Tower and all other single rooms are for upper-class students. There are also eight wheelchair-accessible modified rooms located in the Quad. The "Tower," floors nine through 16 of Sulzberger Hall, houses upper-class students in suites with lounges and kitchenettes.

"616" West 116th Street, an apartment-style residence directly across the street from the Quad, provides housing for 207 students in suites of single and double rooms. Each suite has a kitchen and bath.

"600" and "620" West 116th Street are College-owned buildings comprising a majority of student apartments of one to five single or double rooms with kitchen and bath, and some apartments for community residents.

Elliott Hall, a renovated building adjacent to the west side of campus, houses 131 students. Rooms are on common corridors in suites with shared baths, kitchenettes, and lounges.

Plimpton Hall, an apartment-style residence hall on Amsterdam Avenue and West 121st Street, a short walk from the main campus, but adjacent to Columbia and Teachers College, provides housing for 280 students in suites of five single rooms. Each suite has a kitchen and bath.

601 West 110th Street has housing for at least 30 Barnard students (mostly juniors and seniors) who live in suites and studios. This option provides independent living with an active residential life program.

ELIGIBILITY

Eligibility criteria have been established in order to assign available space on an equitable basis. These regulations may be changed as needed at the discretion of the College, but insofar as possible, the following criteria will determine eligibility:

1. A student must be registered for a full academic program. Exceptions may be made upon review of appeals submitted to the Dean of Studies and the Dean of Student Life.
2. A student receives "Resident" classification if the principal residence of her parent or legal guardian is in the geographic area classified by the College as beyond commuting distance.
3. A "Commuter" is a student whose permanent residence is within the geographic area classified by the College as within commuting distance. Commuters are eligible for campus housing when they enter as first-year students. Rooms are reserved for com-

muters for occasional overnight accommodation. Per diem fees are charged for these rooms.

ASSIGNMENTS

Returning upper-class resident students are assigned rooms in College residences on the basis of a lottery and room selection. Rules about eligibility for and priority in the room selection process are determined by the Housing Committee. Incoming first-year students, readmitted upper-class students, and transfer students are assigned rooms by the Housing Office.

REQUIREMENTS

The rules and regulations regarding housing deposits, payments and refunds, and the use and occupancy of rooms are in the "Terms and Conditions of Student Residence in Barnard College Housing," which is given to students selecting College housing and which must be agreed to before they may accept an assignment.

BOARD

The College offers all students meal plans, which include points that may be used in the recently renovated Hewitt cafeteria, McIntosh snack bar, and Quad café. Meal plans (not points) may also be used at Columbia's John Jay cafeteria for some meals. All first-year students and most residents of the Quad (Brooks, Hewitt, Reid, and Sulzberger Halls) are required to be on a meal plan for the full academic year.

MARRIED STUDENTS

Married students, as a rule, will not be allowed to remain in the College residences. They will be subject to financial obligations which pertain to any student who withdraws from the residence halls or from the College during the term.

FINANCIAL AID FOR ROOM AND BOARD

Commuter students do not normally receive financial aid for living and eating in College residences. Only resident students who choose to live in College housing may receive financial aid for room and board. Resident students who decide to live off-campus or commute from home receive reduced aid packages which reflect the costs of commuters.

ADMISSION

The Committee on Admissions selects young women of proven academic strength who exhibit the potential for further intellectual growth. In addition to their high school records, recommendations, and standardized test scores, the candidates' special abilities and interests are also given careful consideration. While admission is highly selective, no one criterion determines acceptance. Each applicant is considered in terms of her individual qualities of mind and spirit and her potential for successfully completing four years of study at Barnard.

Barnard seeks students from diverse educational and cultural backgrounds and from all geographic regions. However, no preconceived profile of an ideal student population limits the number of applicants accepted from any one group. The College admits students and administers its financial aid and loan programs, educational policies and programs, recreational programs, and other College programs and activities without regard to race, color, creed, national origin, sexual orientation, or disability.

FIRST-YEAR APPLICATION PROCEDURES

Students are admitted to the first-year class in September and, in limited numbers, in January. They must be at least 15 years of age.

Application for admission to the first-year class should be made by January 15 for entrance in September of the same year. Application forms may be obtained by writing to the Office of Admissions. Barnard accepts the Common Application in lieu of its own form and gives equal consideration to both. Students may obtain copies of the Common Application from their high schools.

A non-refundable fee of $45 must accompany each application. Checks or money orders must be in U.S. funds drawn on a U.S. bank and made payable to Barnard College. Students with great financial need should request a fee-waiver from their high school counselor and send it with the application.

SECONDARY SCHOOL PREPARATION

Each candidate for admission must offer a college preparatory program from an approved secondary school or an equivalent education representing a four-year course of study. Academic preparation for admission should be based on the requirements for the A.B., or liberal arts, degree. A recommended program would comprise four years of work in English; three years in mathematics; three or four years in a foreign language (ancient or modern); two years in science with laboratory; and one year in history. An introduction to a second foreign language is generally useful. The remainder of the program would include additional work in the aforementioned subjects with the possible addition of music and art. Applications varying from this pattern are considered without discrimination if the candidate's records indicate genuine intellectual ability and high motivation.

FIRST-YEAR ENTRANCE TESTS

Barnard requires all candidates to take the College Board's SAT I and three SAT II: Subject Tests, one of which must be in writing or literature. The ACT can be substituted for the SAT I and SAT II Subject Tests. We recommend that students take these standardized tests by the fall of their senior year. As early as possible, candidates should write directly to the College Board, Box 592, Princeton, NJ 08450 or the American College Testing Program, Box 168, Iowa City, IA 52240 for the Bulletin of Information containing descriptions of the tests, directions for filing applications, the dates on which examinations are administered, and a list of examination centers. Dates vary from year to year and applications to take the test must be received by the CB and ACT well in advance of the test. Students who require non-standard administration of the tests should consult with

their guidance counselors for testing accommodations.

It is the student's responsibility to direct the College Board or American College Testing Program to send official test scores to the Office of Admissions. The CB code number for Barnard is 2038. The ACT code number for Barnard is 2718.

Another important part of the application is the submission of three recommendations, one from the high school counselor and two from academic teachers of the candidate's choice. These recommendations give the Committee on Admissions additional information about the candidate's interests, character, skills, and aptitude, and should be as complete as possible.

INTERVIEWS

Although not required, an interview is highly recommended. For students who are able to visit the campus, interviews and tours can be arranged by writing or calling the Office of Admissions. Appointments are scheduled Monday through Friday from 9:30 A.M. to 12:00 P.M. and from 1:00 to 4:00 P.M., and on selected Saturday mornings. Applicants who are unable to visit the College may request an interview with a local Barnard Alumnae Admissions Representative (BAAR) by returning the Alumna Interview Request Card that is included with the application.

EARLY DECISION

Well-qualified high school seniors who have selected Barnard as their first-choice college may apply under one of two Early Decision Plans (EDPs). To be considered under the **Autumn Early Decision Plan**, a candidate should submit her application and other required credentials (listed above under freshman application procedures) to the Office of Admissions by November 15. She will be notified of the Committee's decision no later than December 15. To be considered under the **Winter Early Decision Plan**, a candidate should submit a completed application, with all supporting credentials, by January 2 for notification of the Committee's decision no later than February 2. Under either plan, a student may initiate regular applications to other colleges; she must, however, withdraw all other applications upon admission to Barnard. Notification of financial aid for those candidates who have demonstrated financial need will follow the admissions decision. To reserve a place in the first-year class, an Early Decision student must submit a non-refundable enrollment deposit following her decision to enroll. This deposit is applied toward tuition and fees for the first year.

The same criteria are used in the evaluation of applicants under both the Fall and Winter Early Decision Plans. The Committee on Admissions may choose to postpone a decision on an EDP application until the spring. In that event, the student is asked to submit a record of schoolwork from the first half of the senior year. Candidates admitted under the Early Decision Plan are obligated to attend Barnard and will not be allowed to defer their admission.

CENTENNIAL SCHOLARS PROGRAM

The Centennial Scholars Program offers a limited number of intellectually independent students an early opportunity to engage in challenging projects tailored to their individual interests. Centennial Scholars work with mentors, chosen in consultation with the Program directors, on the development, execution, and presentation of these projects.

The Program is limited to 15 students in any single class, approximately eight to ten to be chosen at the time of their admission with additional selections to be made in the following two terms. Admission of a first-year student to the Program is based on the

Centennial Scholars Committee's review of her Barnard application, including her secondary school record, recommendations from her counselors and teachers, her personal statement, standardized test scores, and evidence of advanced preparation. Consideration of an enrolled freshman or sophomore requires recommendations of faculty members.

Centennial Scholars pursue a full program of study and are responsible for the fulfillment of all degree requirements, some of which may be met before matriculation by qualifying scores on Advanced Placement tests. For further information about the Centennial Scholars Program, see page 40.

DEFERRED ENROLLMENT

An admitted first-year or transfer student who wishes to defer enrollment in Barnard for one year must obtain permission by writing to the Dean of Admissions explaining the reasons for the deferral request. Such a request is normally granted for purposes of work, travel, or pursuit of a special interest. Students admitted under the Early Decision Plan cannot defer their admission.

INTERNATIONAL STUDENTS

Barnard welcomes applications from international students. These students are expected to follow the same application procedure and present the same credentials as other candidates.

Knowledge of the English language is essential for admission. Those students whose native language is not English are required to take the Test of English as a Foreign Language (TOEFL). Information about registration for the test is obtained by writing the TOEFL Program, Educational Testing Service, Princeton, New Jersey 08540. After enrolling at Barnard, international students receive assistance with academic placement from the International Student Adviser in the Office of the Dean of Studies.

TRANSFER STUDENTS

Barnard welcomes transfer students in the sophomore and junior classes of each year. Applications for admission in September will be reviewed according to the following schedule:

Deadline	Notification
March 1	April 15
April 1	May 15
May 1	June 15

Each candidate must submit a formal application and the following credentials: the secondary school record, the results of the SAT or ACT, and, if appropriate, the TOEFL, the official transcript of all college work, and a copy of the college catalogue in which the courses taken are clearly marked. Three recommendations are also required: one each from the high school counselor, a college faculty member, and a college dean or adviser.

A strong record at an accredited college, university, or equivalent institution is required. In some cases, advanced credit cannot be assigned until a student has had an opportunity to establish a satisfactory record at Barnard, but in general, credit is given for courses which are similar in content and depth to Barnard courses.

After acceptance, academic and general guidance is provided by the Advisers to Transfer Students in the Office of the Dean of Studies. For information on financial aid, students should consult page 26.

VISITING STUDENTS

Qualified students who are degree candidates at other colleges may apply for admission as visiting students for one or two semesters. Each applicant must present a satisfactory college record and a letter of approval from the dean or major adviser from the degree-granting school.

READMISSION (see pg. 51 Withdrawal and Readmission)

RESUMED EDUCATION PROGRAM

Former Barnard students who wish to return to the College after an absence of five years or more to complete the A.B. degree or for further study in new areas of interest after graduation may obtain applications from Dean Aaron Schneider in the Office of the Dean of Studies.

ADMISSION WITH ADVANCED PLACEMENT

Credit for advanced work completed in secondary school is determined on the basis of Advanced Placement (AP) scores and by the policy of the Barnard department concerned. Departmental policies are outlined below. As much as a year of degree credit (normally 30 points) may be granted.

Department	AP Score	Credit	Requirement Status
Art History	4 or 5	3 pts.	Exemption from ARH BC 1001
Biological Sciences	4 or 5	3 pts.	(4.5 pts. with review of lab notes) and exemption from BIO BC 1001
Chemistry	4 or 5	3 pts.	Exemption from Quantitative Reasoning (5 pts. with review of lab notes) and exemption from CHE BC 1601
Computer Science	4 or 5	3 pts.	Exemption from CSC W 1003
Economics	4 or 5	3 pts.	Exemption from either ECO BC 1001 or 1002
English	4 or 5	3 pts.	Exemption from ENG BC 1201
Foreign languages	5	6 pts.	Exemption
	4	3 pts.	Exemption
History	5	6 pts.	
	4	3 pts.	
Mathematics			
Calculus AB	4	3 pts.	Exemption from Quantitative Reasoning and placement in IIA. If student takes and passes the placement test for IIS, she will receive 4 pts. of AP credit and may continue in IIS.
Calculus AB	5	4 pts.	Exemption from Quantitative Reasoning and placement in IIS.
Calculus BC	4 or 5	4 pts.	Exemption from Quantitative Reasoning and placement in IIS. Students may not begin with IIA. If a student takes IIA, rather than IIS, she will receive only 3 pts. AP credit.

Music	4 or 5	3 pts.	
Physics	4 or 5	3 pts.	Exemption from Quantitative Reasoning (4 pts. with review of lab notes) and one term of two-term physics sequence.
Poli. Sci. (U.S. only)	4 or 5	3 pts.	No credit toward the major.
Psychology	4 or 5	3 pts.	Exemption from PSY BC 1001.

No credit will be granted for a college course equivalent to the AP course for which AP credit has been awarded.

OTHER DEGREE CREDIT

Students who have satisfactorily completed college courses before entering Barnard as first-year students may apply for a maximum of 15 points of degree credit. The courses must be intended primarily for college students and taught at the college by members of its faculty. With the exception of the aforementioned Advanced Placement courses overseen by the College Board, courses taught in a high school, either by specially trained high school teachers or by college instructors, will not be credited toward the Barnard degree.

FINANCIAL INFORMATION

The costs of education at Barnard are met by tuition, income from endowment, current gifts from alumnae and other friends of the College, and grants from foundations, corporations, and government agencies. The College makes every effort to limit charges to students but must reserve the right to set tuition and fees at the level necessary for the maintenance of a high quality of instruction.

SCHEDULE OF ANNUAL TUITION AND FEES

The following tuition and fees are required from all students for the Academic Year 1995-96 and are subject to change without prior notice.

Tuition:

Full program (12-18 points)	$18,732
Partial program (1-11 1/2 points)	625 *(per point)*
Excess program (over 18 points)	625 *(per point)*
Program for Resumed Education. Tuition is assessed on the basis of a schedule available from the Director of the program in the Office of the Dean of Studies.	
Comprehensive Fee *(includes Student Health Service Charges and Student Activity Charges)*	748

The following fees are required from all students occupying college housing facilities for the Academic Year 1995-96.

Residence charges

Brooks, Hewitt, Reid and Sulzberger Hall ring floors *(board required— see below)*

All college housing

Single occupancy	$5,642
Multiple occupancy	5,026

Board charges — Required of all those living in Reid and Sulzberger Hall ring floors and of most living in Brooks and Hewitt

19 Plus Plan—19 meals per week (50 pts.)—minimum requirement for all first-year students in Barnard housing	$3,506
14 Plus Plan—14 meals per week (170 pts.)	3,146
10 Plus Plan—10 meals per week (110 pts.)	2,902
7 Plus Plan—7 meals per week (220 pts.)	2,902

A drop or change of meal plan will not be accepted after the second Friday of each semester. Charges will be prorated during this period and a $50 fee will be assessed.

Other fees — Required if applicable

Readmission fee	$100
Registration in absentia (per semester)	200
Physical education—part-time students (per course)	625
Orientation fee—all first-year and transfers entering in the	
Autumn term	150
Spring term	50

Deferred Payment Plan (per semester)	$75
Overseas comprehensive fee (per semester)	85
Overseas Program fee *(Reid Hall, Barnard Option, Kyoto Program)* (per semester)	75
Senior fee—all graduating seniors	100
Course fee *(per semester)*	
French	10
Film fees	
Art History—Autumn	5
Art History—Spring	30
French	20
Italian	30
Laboratory fees *(per laboratory course)*	
Biological Sciences	40
Chemistry—General	28
Chemistry—Other	35
Biochemistry	45
Environmental Science	30
Physics	25
Psychology	30
Study Leave fee *(per semester)*	200
Summer Credit Processing fee *(except CU summer session)*	50
Returned check fee (per item)	50

PAYMENT OF CHARGES AND FEES

All charges and fees (unless otherwise noted) are billed on a semester basis. The Autumn term tuition is due August 1. The Spring term tuition is due December 1. Payments received after these dates are subject to a late processing fee of $75. Registration for either semester will not be complete until all College costs have been paid. In addition, failure to complete registration and program filing on time imposes progressive late fees. Occupancy of an assigned dormitory room will not be permitted until charges have been paid in full as required. Students admitted after August 1 or December 1, respectively, must pay the balance due by the first day of registration.

Financial aid grants and any loans (less loan origination fees imposed by your lender) may be deducted from the semester charges before computation is made of the balance due.

Privileges of the College, including issuing of transcripts and diplomas, and administration of examinations, are not available to any student who is delinquent in the payment of her College bills. When bills are not paid in full by their due date or satisfactory arrangements for their payments have not been made with the Bursar, the student will not be allowed to register and may be required to withdraw from the College.

Delinquent accounts are referred to a collection agency. In addition to any outstanding tuition and fees, students are responsible for the costs of collection including interest, penalties, collection costs, and attorney fees. **All charges and fees are subject to change at any time at the discretion of the Board of Trustees.**

Checks or money orders in payment of tuition and fees must be in **U.S. funds at a U.S. bank** payable to Barnard College and should be made out for the exact amount of the payment due. A fee will be assessed for checks returned unpaid.

DEPOSITS

To obtain a place on the College roster for the ensuing academic year, each student who is currently enrolled must pay a non-refundable tuition deposit of $200 on or before May 6. An applicant for admission must pay a $400 non-refundable deposit upon acceptance of the offer of admission to Barnard College.

All returning resident students must pay a $200 housing deposit in person or by proxy prior to the spring housing lottery during the time period designated by the Housing Office. Students who are not eligible to participate in the spring housing lottery but wish to live in college housing must submit a $200 housing deposit with their wait list application for college housing to the Housing Office. Housing deposit credits will be given as follows: full credit if a room is not selected in the spring housing lottery; credit of $100 if a room is selected in the spring housing lottery or assigned by the Housing Office but canceled in writing by July 1. No credit is given if a room is selected in the spring housing lottery or assigned by the Housing Office and canceled after July 1; but a student who files an approved study leave form for the Autumn or Spring term and cancels her housing assignment immediately upon such approval will receive credit for her deposit.

DEFERRED PAYMENT

For students and parents desiring to pay education costs in monthly payments, a choice of Barnard and outside payment plans is available. Information may be obtained from the Bursar's Office.

ADJUSTMENT OF TUITION FOR CHANGING PROGRAM OF STUDY

If a student changes her program and the tuition called for is lower than the amount she has already paid, she will be credited the excess only if the alteration in her program is made by September 16 (last day of program filing) in the Autumn term and by January 27 in the Spring term. If the new program calls for higher tuition, the student is responsible for paying the additional charges promptly.

CREDITS FOR WITHDRAWAL

If a student withdraws during the College year, both the tuition deposit and the housing deposit are subject to forfeit. Withdrawal credits will be calculated from the last day of attendance. However, charges will be assessed by the College for housing and dining services based on the official date of withdrawal from those contracts. The appropriate cancellation forms are available in the Housing and Bursar's Offices, respectively.

Tuition credit percentages (withdrawal during the week of the term):

1st week	90%
2nd week	80
3rd week	80
4th week	70
5th week	60
6th week	60
7th week	50
8th week	40
9th week	40
After the 9th week	0

Items not subject to the credit calculation include:

- Lab fees
- Related course fees

- Medical insurance
- Academic computer fees
- Orientation fees
- Late payment, program filing, registration, or deferred payment fees
- Returned check fees
- Dormitory use fines
- Finance charges
- Non-refundable deposits to ensure matriculation or housing space.

Students will not be eligible for a refund until all Title IV funds and other scholarships, as required, are reimbursed, and any outstanding balances with the College are cleared.

In the event of withdrawal from housing while still enrolled in the College, a student will forfeit 80% of housing charges during the first two weeks of classes. Thereafter, the entire amount for the semester will be forfeited.

SAFEKEEPING OF STUDENTS' FUNDS

Barnard College is not able to receive funds from students for safekeeping or to cash personal checks or traveler's checks. To cover immediate expenses, a student should have traveler's checks, which can be cashed at a local bank, or postal money orders, which the Columbia University Station of the U.S. Post Office will cash upon presentation of a validated ID card. Validated ID cards are issued after students register at the beginning of each term.

FINANCIAL AID

Insofar as possible, Barnard assists qualified students who demonstrate financial need. Barnard does not discriminate against applicants for financial aid on the basis of race, color, creed, national origin, or disability.

Financial aid from the College consists of grants, loans, and opportunities for part-time employment. In addition to providing financial aid from its own funds, i.e., gifts, endowment, and general income, Barnard participates in the following Federal programs: the Federal Pell Grant Program, the Federal Supplemental Educational Opportunity Grant Program, the National Science Scholars Program, the Federal Perkins Loan Program, the Federal Family Education Loan Program, and the Federal College Work Study Program. Barnard also participates in the New York State Higher Education Opportunity Program (HEOP). Federal and state funds are administered by the College in accordance with government regulations and the College's general policies relating to financial aid. To supplement the above-mentioned financial aid sources, students are urged to investigate state loan and scholarship/tuition assistance programs and college tuition financing plans. The Controller's Office has additional information and applications for payment plans and long-term financing plans.

Any student who thinks she will need financial aid in order to attend Barnard is encouraged to apply for aid. The decision of the Committee on Admissions to admit a student is not affected by the fact that a student has applied for or demonstrated need for financial aid.

A detailed explanation of current College policies and awarding practices may be found in the brochure, *Barnard College Financial Aid Policies and Procedures*, available from the Office of Financial Aid.

FINANCIAL AID FOR ROOM AND BOARD

Commuter students do not normally receive financial aid for living and eating in College residences. Only resident students who chose to live in College housing may receive financial aid for room and board. Resident students who decide to live off-campus or commute from home receive reduced aid packages which reflect the costs of commuters.

ACADEMIC ADVISING

Academic advising is coordinated by the Office of the Dean of Studies (105 Milbank), which oversees the assignment of an adviser to each entering student. Although responsibility for the fulfillment of degree requirements (see page 33) rests with the student, her academic adviser is prepared to help her match her program of courses to her individual goals and priorities, to acquaint her with the full range of academic resources available at the College and the University, and to respond to her questions about the curriculum and academic policies and procedures. Also available for assistance are her Class Dean, the entire staff of the Dean of Studies, and the other members of the Barnard Faculty.

CLASS DEANS AND ADVISERS

Prior to her matriculation, each entering first-year student will receive a program form and the program guide from the First-Year Class Dean. The student selects courses for the Autumn term and returns the completed program form to the Class Dean for first-year students who, insofar as possible, schedules classes accordingly. Class schedules and registration materials are distributed when students arrive on campus in September. The Class Dean also assists the Dean of Studies in coordinating the academic advising of first-year students, participates in planning for first-year orientation with the help of a committee of upper-class students, and oversees other special programs for first-year students.

Assistance in planning courses of study is given to first-year students and sophomores by their academic advisers. Group meetings with advisers are scheduled during orientation; students are expected to schedule appointments for individual advising throughout the year. Group meetings with department chairs and other professors are arranged periodically to facilitate the selection of majors.

In the second semester of her sophomore year, each student chooses her major field in consultation with her Class Dean, her adviser, the academic department, and the Director of Career Services. During her junior and senior years, her major adviser guides advanced study for the undergraduate degree and is the principal source of information on preparation for graduate school. Also available to her for general academic guidance is her Class Dean.

While it is the student's responsibility to complete all degree requirements, the Registrar reviews each senior record and advises on graduation status. A senior handbook, sent to campus mailboxes at the beginning of the Autumn term, describes College policy on honors, application procedures for graduate or professional study, and deadlines for major examinations, GRE, LSAT, MCAT, and fellowship applications. The Senior Class Dean and the Coordinator for Commencement oversee the planning for commencement with the help of class officers and the Commencement Committee.

TRANSFER ADVISERS

Incoming transfer students are assisted by the transfer advisers in planning their courses of study and designating a major field. Group meetings are scheduled late in the summer and during orientation, and individual appointments may be arranged in the Office of the Dean of Studies throughout the academic year. Transfer students who enter with junior class standing are guided by both transfer and major advisers during their first Barnard semester.

INTERNATIONAL STUDENT ADVISER

Advice on situations arising from international student status is available in the Office of the Dean of Studies from the deans designated to counsel international students.

VISITING STUDENTS

Students who enroll for classes at Barnard as visitors who will graduate from another college must have approval from the degree-granting school for coursework to be completed at Barnard. Program filing and registration are guided by a designated dean in the Office of the Dean of Studies.

STUDY LEAVES

Students who wish to study for credit toward the Barnard degree at another accredited college, whether it be abroad or in the United States, are to apply for approval from the appropriate dean in the Office of the Dean of Studies early in the semester before the period of enrollment at the other institution. Information and forms are available at 105 Milbank.

PRE-PROFESSIONAL ADVISING

Students who are interested in post-baccalaureate professional training may consult the appropriate pre-professional dean in the Office of the Dean of Studies for help with programming, selection of schools, and submission of application materials. A student who plans to enter one of the health professions should seek advice in her first or second college year in order to discuss requirements and obtain a handbook. Consultation with the pre-professional advisers in the junior year is recommended for any student interested in law, social work, journalism, or business. The pre-professional assistant maintains recommendation files and forwards materials required for applications. (See page 31.)

GRADUATE SCHOOL ADVISING

Students interested in advanced study in the liberal arts and sciences or the performing arts may consult faculty members in appropriate departments and the Senior Class Dean. A student who plans to apply to graduate school should, in her senior year, establish a file with the assistant for graduate school recommendations in the Office of the Dean of Studies.

OFFICE OF CAREER SERVICES

The Office of Career Services helps students and alumnae explore, define and implement career plans. To provide this service the office has developed programs enabling Barnard women to gain work experience and to become informed about different career opportunities. Both students and alumnae are seen for individual career counseling, and group workshops are given on careers and related concerns. The Career Services Internship Program provides semester and summer offerings useful for students to clarify their vocational interests through valuable and often professional-level experience. A newsletter informs students about career programs, workshops, internships, community service, and special opportunities.

To aid students and alumnae in exploring career areas, the Office maintains a Contact File, which lists alumnae who are available to discuss their fields; a library of vocational materials; and a collection of graduate school catalogues. Workshops on specific concerns, such as résumé writing and interviewing skills, are conducted when the College is in session. Students and alumnae may establish permanent recommendation files in the office for future employment.

The Office of Career Services, which is open twelve months a year, has contacts with many potential employers who post full- and part-time jobs. The Federal Work Study Program is also administered by this office. Students use part-time and temporary job listings for both on- and off-campus jobs. *The Jobseekers Newsletter*, which highlights full-time job opportunities, is issued every two weeks and is mailed to alumnae who request it. During the spring semester, seniors are interviewed on campus by corporate and large non-profit organizations offering entry-level professional opportunities through the Recruitment Program.

The Barnard Babysitting Service, the Barnard Bartending Service, and the Barnard Student Store are student-run services supervised by the office. They provide excellent managerial experience and create jobs for many students.

PROGRAM FOR STUDENTS WITH DISABILITIES

In 1978, Barnard established a program to provide services for students with disabilities which enhance their educational, pre-professional, and personal development. The Office for Disability Services (ODS) serves students with visual, mobility, and hearing impairments and students with hidden disabilities such as chronic medical conditions, learning disabilities, and psychiatric/emotional disabilities. The ODS works with other administrators and members of the faculty to assist students with disabilities in participating in college activities, securing financial aid, scheduling classes and examinations, and planning careers. Mobility aides, readers, tutors, and note-takers are available on request. ODS publications include the *Barnard College Policy on the Admission of Students with Disabilities* and a services brochure, *What ODS Can Do for You*. The 504/ADA Access Committee works to reduce architectural, programmatic, and attitudinal barriers at the College. The Barnard LD Network offers outreach, peer support, and referral to students with learning disabilities; the BAID Network (Barnard Alumnae Involved with Disabilities) provides students with access to disabled alumnae in a broad range of careers.

The buildings on the contiguous campus interconnect and are wheelchair accessible. Maps of the campus showing special features and access routes are available at the Office for Disability Services.

STUDENT HEALTH SERVICES

Student Health Services provides primary health care and gynecological services as well as specialist referrals for all registered Barnard students. They also support a variety of peer education programs and other activities related to women's health, wellness, and other significant health issues. The medical staff consists of full-time and part-time physicians, nurses experienced in college health and women's health care practice, and a part-time gynecologist. The Mental Health Service is staffed by psychiatrists, clinical psychologists, and clinical social workers. Advanced trainees in a number of clinical disciplines work at Barnard on a yearly basis. Entering students must submit medical history and physical forms, which become the basis of the medical chart.

Both the Health Services and the Mental Health Services are available to all Barnard students and are covered by the Comprehensive Fee. The Barnard Health Services close during college vacations and holidays, when Barnard students may use the Columbia University Health Services. A physician is on call nights and weekends when the College is in session and during winter and spring break for after-hours emergencies.

All Barnard students who have paid the Comprehensive Fee are covered for the Basic Accident and Sickness Plan benefits of the Barnard Student Insurance Plan. The insurance plan provides benefits toward the cost of the following services when ordered by a Barnard staff physician:

1) hospitalization for illness or accident; 2) laboratory tests and X-rays; 3) consultations. The following services are **not** covered: 1) home visits; 2) consultations when the College is not in session; 3) dental care (except for treatment of injury to sound natural teeth); 4) on-going treatment by outside physicians or other practitioners.

For additional information, students are encouraged to consult *Barnard Health Service, A Student Guide*, and the brochure describing the Barnard Student Insurance Plan, which are available at the Student Health Services.

RESIDENT ASSISTANTS

As part of the student support network, upper-class students in each residence hall are designated as **Resident Assistants** to be a campus resource for resident students, to provide liaison with and referrals to other services, and to aid in residential programming.

SERVICES FOR COMMUTERS

The Office of Student Life provides information about off-campus housing, transportation, carpooling, parking, and temporary on-campus accommodations, and supports educational, cultural, and social programs designed to enrich commuter life. The Skip-Stop Express is the student-run organization sponsoring events and support services for commuters. It has an office in McIntosh Student Center across from the Commuter Lounge.

RECOMMENDATIONS

Students may establish recommendation files for employment in the Office of Career Services, for graduate study with the recommendations secretary in the Office of the Dean of Studies, and for professional schools with the pre-professional secretary in the Office of the Dean of Studies. For procedures and policy, the appropriate office should be consulted.

STUDENT RECORDS AND INFORMATION

The Family Educational Rights and Privacy Act of 1974 (the Buckley Amendment) stipulates that students may have access to their official files and that no transcripts may be issued without their written request. A further explanation may be found in the *College Calendar and Student Handbook*.

Also in accordance with the Buckley Amendment, Barnard has the right to make public, at its discretion and without prior authorization from the student, the following informa-

tion: name, class, home or college address and telephone number; major field; date and place of birth; dates of attendance at Barnard; degrees; honors and awards received; and previous school most recently attended. The law also gives students the right to place limitations on the release of this information. A student who wishes to do so must file a special form with the Registrar, 107 Milbank, each year by September 15. In practice, the College does not indiscriminately release information about individual students.

THE CURRICULUM

REQUIREMENTS FOR THE A.B. DEGREE

Students are recommended by the Faculty of Barnard College to the Trustees of Columbia University for the degree of Bachelor of Arts, the only degree awarded to Barnard students. The degree requires the satisfactory completion of 120 points of academic work and two terms of physical education. All students must complete a major and must fulfill general education requirements.

MAJOR REQUIREMENTS

All students must complete the requirements of an approved major. The number of required courses for the major depends on the major chosen (see individual department and program curriculum statements), but a minimum of six semester courses must be completed while the student is enrolled at Barnard. A course graded D will not satisfy a major requirement.

The student registers her chosen major with the Office of the Registrar and with her major department or program, normally in the second term of her sophomore year. The major may be chosen from any listed in the *Barnard Catalogue*. A student may major in two fields by satisfying all the major requirements prescribed by each department, with no overlapping courses. If either of the fields qualifies for the distribution requirement, two of the courses in one field may count toward that requirement. A combined or special major may be designed in consultation with the chairs of the appropriate departments and with the approval of the Committee on Programs and Academic Standing. Committee approval is not needed for the double major that comprises all the course requirements of two majors with one integrating senior project, but the form designated for such a double major must be filed with the Registrar and the two departments.

GENERAL EDUCATION REQUIREMENTS

Barnard's general education program is designed to provide direction and continuity while giving students opportunities to shape their own programs of study. Barnard offers a rigorous but flexibly structured set of requirements which afford students a range of choice in almost every instance. The requirements follow.

FIRST-YEAR SEMINAR

First-year students are required to take this one-semester course, which provides special opportunities to develop some of the intellectual skills and styles which will be central to subsequent academic work. The enhancement of writing and communication skills is emphasized, as is the group-discussion mode of intellectual inquiry and discourse. Seminars adopt major themes or issues, and participants read and discuss leading philosophical, historical, literary, or scientific statements of them. A full list of First-Year Seminars, with descriptions and the names of instructors, begins on page 149. Transfers are not required to take the First-Year Seminar.

FIRST-YEAR ENGLISH

First-year students must take the one-semester writing course ENG BC 1201 (First-Year English), designed to cultivate and develop prose writing and related tools of scholarship. Reading and writing assignments focus on major works of literature. This course may not be taken on a Pass/D/Fail basis. Some students may gain exemption from the course with

an Advanced Placement (AP) test score of 4 or 5. International students are required to exhibit a degree of fluency before enrolling in this course. Transfers are not required to take this course but must have earned exemption or completed an equivalent course before graduation.

FOREIGN LANGUAGE

Students must achieve basic competence in one ancient or modern foreign language. The requirement is fulfilled by completion of the fourth sequential semester or a more advanced course for which the fourth semester is prerequisite. (In Latin, both Latin V 1201 and V 1202 or their equivalents must be completed.) The faculty recommends that in general (i) the intermediate year be completed at Barnard; (ii) elementary courses be completed in the first year; (iii) courses be taken consecutively without interruption; and (iv) proficiency be established by the end of the junior year. Reenrollment without credit is required for students whose work in any of the first three semesters is graded below C.

Exceptions:

1. Completion of Spanish BC 1208x for Spanish-speaking students (taken only with the instructor's permission) will qualify on recommendation of the instructor.
2. Enrolled students who complete the third or fourth semester of French outside the Barnard department must take a departmental examination to qualify for fulfillment.
3. Enrolled students who wish to qualify in German are advised to take German BC 1204 at Barnard, or they will otherwise be required to take the German Department's placement examination on completion of the other-college course.

Exemptions:

1. CEEB Achievement score of 750 or higher; CEEB score of 700 or higher in Hebrew only.
2. AP score of 4 or 5.
3. Departmental examination.
4. Students with native English who study in a high school where the language of instruction is not English (e.g., French, for alumnae of the Lycée Français).
5. For international students for whom English was not the primary language of instruction in high school, satisfactory completion of English BC 1201 or one satisfactory year at Barnard.

Placement:

1. CEEB Achievement score of 650-749, fourth semester; 550-649, third semester; 400-549, second semester; below 400, first semester, for French, Spanish, and German. In other languages, placement will be determined by departmentally administered examinations.
2. For transfer students: the course following the level of the last satisfactorily completed semester course; however, formal withdrawal and reenrollment in a more suitable course may be required for students who are judged by the department to be inappropriately placed and in need of additional preparation or review. In such a case, transfer credit for the previous course is rescinded to allow the student to receive credit for the Barnard/Columbia course of equivalent level.
3. By departmental examination, if there is no CEEB score or previous college transfer work.

Credit:

1. Credit is given for courses satisfactorily completed in residence at Barnard or, in the case of a transfer, at her previous college.
2. No prior assurance of degree credit is given for summer or transfer work in foreign language courses. For work completed at other colleges, credit is granted with departmental approval, or by examination, or on completion of the next level at Barnard.
3. No credit is granted for work equivalent to a level already completed and credited.
4. Although credit for the first semester of an elementary language is not normally granted unless a more advanced course is completed, a student is granted **one** exception maximum to this rule on written request to the Registrar.

LABORATORY SCIENCE

Students must complete one year of science (two semesters), with laboratory, in the same field. Acceptable courses must meet for at least three hours of lecture and three hours of laboratory per week. The student must pass both the lecture and the laboratory portion of the course, and the College strongly suggests that the two be taken concurrently. The following courses meet these requirements:

Astronomy	AST V 1753-1754 or AST C 1403-1404, both with the lab AST C 1903-1904
Biology	BC 1001-1002, 2001, 2002, 2003, 2004
Chemistry	BC 1601 and BC 1602 BC 1601 and BC 3230 with BC 3328 C 1403-C 1404 with C 1500 and one additional laboratory course, e.g., BC 1702, BC 3328, or BC 3338.
Environmental Science	BC 1001, BC 1002, GEY V 1001, 1011-1012, GEY S 1021D-1022Q (CU Summer)
Physics	BC 1206-1208, F, V, or W 1201-1202, C 1021-1022, V 1301-1302, V 1305-1306, C1001, 1002 with BC 1091-1092
Psychology	BC 1105, BC 1108, BC 1117, BC 1123, BC 1127, BC 1130, BC 1136, BC 1156 (any two from different groups: see Major Requirements)

Students wishing to substitute a course sequence not given above, transfer students, and those with Advanced Placement should consult with the appropriate department chair for guidance with respect to fulfilling this requirement.

QUANTITATIVE REASONING

All entering students must take the Basic Math Skills test during their first week of matriculation. Students with scores lower than 11 out of 20 must take QUR BC 1001, *Basic Math Skills*, during their first year at Barnard *before registering for any of the courses listed below that satisfy the Quantitative Reasoning Requirement.* Basic Math Skills topics are arithmetic (including fractions, decimals, and percentages), exponents and logarithms, equations and graphs, and word problems.

In order to graduate, students must pass one of the courses listed below in which the major topics are mathematics, methods of empirical analysis using quantitative data, or the use of symbolic manipulation to solve problems. These courses can count both toward a major or distribution requirement and for the Quantitative Reasoning Requirement.

Students may fulfill the Quantitative Reasoning Requirement by securing Advanced Placement or transfer credit for a course listed below or for an equivalent course. A student who fulfills the Laboratory Science Requirement in Chemistry, Physics, or Astronomy simultaneously satisfies the Quantitative Reasoning Requirement.

Astronomy	V 1753, V1754, C 1403-1404
Biology	BC 3386
Chemistry	BC 1601, C 1403, C 1404
Computer Science	Any course carrying degree credit *except* W 1001 CU Summer S1021D, S1022Q.
Economics	BC 2411
Environmental Science	BC 3015 and BC 3016 (Both courses must be taken.)
Mathematics	Any course carrying degree credit
Philosophy	V 3411, V 3415 (F 3410 does not fulfill the requirement.)
Physics	Any course carrying degree credit
Political Science	BC 3345
Psychology	BC 1101
Quantitative Reasoning	All courses carrying degree credit *except* BC 1001
Sociology	V 3212
Statistics	Any course carrying degree credit

DISTRIBUTION

Note: It is possible to satisfy both Part A and Part B of the distribution requirement with the same courses, but all students must take two courses in the Humanities and two in the Social Sciences.

Part A:

Students must complete four one-semester courses outside the major, two in the Humanities and two in the Social Sciences. In each of these areas, only one of the two courses may be interdisciplinary.

The distribution requirement in the Humanities may be fulfilled by courses in Art History, Philosophy, Religion, Medieval and Renaissance Studies, any literature, the history or literature of music, the history of dance or theatre, or Humanities C 1001 or C 1002, and by designated courses in Asian and Middle Eastern Cultures or Women's Studies.

The distribution requirement in the Social Sciences may be fulfilled by courses in History, American Studies, Anthropology, Economics, Linguistics, Political Science, Sociology, or Contemporary Civilization C 1101 or C 1102, and by designated courses in Asian and Middle Eastern Cultures, Urban Affairs, or Women's Studies.

Part B (for the Class of '97 and all succeeding classes):

Students must complete four one-semester courses (tranfers must complete three) chosen from the three categories listed below, with no more than two courses from any one category.

I. Comparative Studies of Culture and Society
II. Societies and Cultures of Asia, the Pacific, Africa, or the Middle East
III. Societies and Cultures of Europe or the Americas

Courses taken for Distribution - Part B may also qualify to fulfill Distribution - Part A. Courses that qualify for the major or a minor may also qualify for Distribution - Part B.

Courses satisfying Part A are identified in this catalogue by the letter H (for Humanities) or S (for Social Sciences) on the last line of the course description. Courses satisfying Part B are identified by the Roman numeral I, II, or III (corresponding to one of the three categories listed above) on the last line of the course description. When a course satisfies both Part A and Part B, its description will be accompanied by both the letter H or S and the Roman numeral I, II, or III.

PHYSICAL EDUCATION

Students admitted as first-year students must complete two semesters of Physical Education at Barnard. One semester must be passed in the first year and the requirement must be successfully completed by the end of the sophomore year. Sophomore and junior transfers are required to complete one semester of Physical Education at Barnard. Transfers are expected to complete their requirement by the end of junior year. Failure to complete the requirement by the specified deadlines will result in a failing grade. Physical Education courses are graded pass-fail based on attendance and participation. Studio Dance courses may be taken to fulfill the Physical Education requirement.

ELECTIVES

Apart from fulfilling general education requirements and major requirements, the student completes the remainder of the 120-point requirement with elective courses, either within or outside the major department, subject to the approval of the appropriate adviser.

No more than 18 points of studio, performing arts, or professional school courses (including film) may be credited toward the A.B. degree. Of these, a maximum of four arts studio courses may be credited. A student who takes more than two is required to validate each additional studio course with a course in art history. A maximum of six courses in instrumental instruction may be credited (except for Music majors and minors, who may take eight) and a student who takes more than two is required to validate each of the third and the fourth courses of music lessons with a course in music theory, history, or literature. See page 192.

One-point dance technique courses taken by non-dance majors for credit are also included in the existing 18-point maximum which may be credited toward the degree; a maximum of six courses in dance technique may be credited; a student who takes more than two one-point dance technique courses for credit is required to validate the third and fourth credit-bearing dance technique courses in each of the two semesters with a concurrent course offered by the Dance Department which does not contain a technique component.

Exceptions to this rule are allowed only for courses in the major field or for courses taken in fulfillment of requirements for double and joint degree programs with the profes-

sional schools of the University. A maximum of 24 points may be credited for studio or performance courses in the major field. A minimum of 90 points of traditional liberal arts courses is required for the student who majors in such a field; for all other majors, a minimum of 102 points of such courses is required.

LENGTH OF RESIDENCE

Students with no transfer credit are expected to be registered full-time for four years. Transfer students must complete at least 60 points and two years full-time in residence at Barnard to receive the degree (see below for additional information). Under certain conditions, it is possible for a senior to complete her work for the degree while registered in absentia, with the permission of the Committee on Programs and Academic Standing.

REQUIREMENTS FOR TRANSFER STUDENTS

A student admitted to Barnard with fewer than 24 points of credit is considered a first-year student and is subject to all requirements for first-year students, including First-Year Seminar, two semesters of Physical Education, and four courses in Distribution-Part B. A student admitted with 24 credits or more is considered a transfer student. To receive the A.B. degree at Barnard, a transfer student must attend Barnard for at least four regular academic terms during which she must complete at least 60 points, including at least six courses in the major field (and three in the minor field, if a minor is elected). Additional major (and minor) courses, as well as general education requirements, may be satisfied by transfer courses. Exemption from the foreign language requirement may be attained on the basis of College Entrance Examination Board Achievement scores alone or by a combination of those scores and additional college work. Those who do not receive exemption must complete the normal language requirement (see page 33). Transfer students are eligible for general honors when both overall and Barnard averages meet the required academic standards.

TRANSFER CREDIT

Courses completed at other accredited colleges and universities which are similar in content and depth to Barnard courses may be submitted for transfer credit. Transfer courses are evaluated after a complete transcript is received in the Office of the Registrar. Students are asked to submit catalogues and course descriptions with their requests for transfer credit to the Registrar, who notifies them of the evaluation by mail.

Credit for approved work at another institution is applied to Barnard's 120-point graduation requirement with a maximum of 16 points per term. Credit cannot be granted for courses with grades lower than C minus. Acceptable transfer work does not usually include applied or professional courses or more than the equivalent of two Barnard studio courses. The first term of an elementary language course is not normally credited unless or until the second term or a more advanced course has been satisfactorily completed, but a student may request a single exception to this ruling.

Transfer students may apply for credit for previous summer courses under the regulations governing summer study (see page 42).

First-year students with a record of prior coursework taken as non-matriculants at an accredited college in the United States may request up to 15 points of transfer credit. Such work will be evaluated after the student has completed 12 points at Barnard. Grades for this coursework are included in the overall average.

CLASSIFICATION OF STUDENTS

Students are classified as follows:

Matriculated	**Points completed**
First-year	fewer than 24
Sophomore	24-51
Junior	52-85
Senior	86 or more
Unclassified	transfer students who have not yet been assigned credit

Non-matriculated:

Other college degree candidates (visiting students)
Barnard alumnae auditing courses
Barnard alumnae taking courses for credit
Any other student who is not a degree candidate

A degree candidate (i.e., a student who is matriculated) may not change her status to non-matriculated.

FILING OF DIPLOMA NAME CARDS

The Diploma Name Card, available in the Office of the Registrar, is the student's official notification to the Registrar that she expects to have completed all requirements for the degree and to receive the diploma on a particular graduation date. Degrees are granted in May, October, and February. The filing of the card sets in motion the processing of the student's academic records in preparation for graduation. It is the student's responsibility to file the Diploma Name Card before published deadlines (see College Calendar). Graduation ceremonies are held in February and May.

OTHER ACADEMIC OPPORTUNITIES

MINOR

The selection of a minor field of study is optional. A minor requires at least five courses (three of which must be qualifying Barnard or Columbia courses) that total a minimum of 15 points, and may be designated by any student having a major after completing a minimum of three courses in the minor field. Requirements depend on the minor chosen (see individual department curriculum statements); courses are selected in consultation with the department chair. Two of the courses taken for the minor may be used to fulfill the distribution requirement if the field selected qualifies for the requirement (see page 33). Courses for the major and minor may not overlap. To qualify for the minor, a course must be letter-graded A-C.

SENIOR SCHOLAR PROGRAM

The Barnard Senior Scholar Program allows a qualified student to undertake a single project for the entire senior year, or for one semester of the senior year (normally the second). The Program is intended for the student who is unusually well prepared in an academic discipline or in one of the performing arts. It offers the special advantages of concentration on one project, designation as Senior Scholar on the permanent transcript, and the amendment of some major requirements. Senior Scholars are allowed credit for no more than 30 points for the project. In the past, Barnard Senior Scholars have gained approval for a wide range of proposals.

A qualified student interested in the Senior Scholar Program should consult the Senior Class Dean in the Office of the Dean of Studies, who is coordinator of the program, in her junior year. Before the beginning of the senior year, the student should have completed all but the major requirements for the A.B. degree. Her written application for the Senior Scholar Program is submitted to the Committee on Honors for approval. The deadline for the application appears in the College Calendar.

CENTENNIAL SCHOLARS PROGRAM

The Centennial Scholars Program offers students of outstanding achievement and ability an opportunity to engage in challenging independent projects tailored to their individual interests. Supplementing the regular Barnard curriculum, the program enables Centennial Scholars to pursue individual objectives in specialized areas with the assistance of mentors chosen in consultation with the program directors.

Admission to the Centennial Scholars Program is based on evidence of intellectual creativity and advanced academic preparation. While many of the students in the Program are selected at the time of their admission to the College, the Program is also accessible to enrolled first-year students and sophomores who distinguish themselves during their first terms at the College.

The Program confers a maximum of 18 points of credit toward the degree. In the spring of the student's first year as a Centennial Scholar, she enrolls in CEN BC1889, "Working with Ideas," an interdisciplinary course designed to lay the foundation for the core of the Program, an extended apprenticeship with her mentor(s). Her project may extend over two or three semesters and may include a summer to accommodate travel or other particular needs. The Program culminates in the Centennial Scholars Symposium, which is devoted to the public presentation of the project in the term of its completion. Dinner lectures, and outings to museums, artists' studios, and research laboratories and similar activities are additional features of the Program.

The Centennial Scholars Program is governed by a committee consisting of the following members:

Leslie Lessinger, Co-Director, *Professor of Chemistry*
Natalie Kampen, Co-Director, *Professor of Art History and Women's Studies*
Dorothy Denburg, Academic Adviser to Centennial Scholars, *Dean of the College*
Serge Gavronsky, *Professor of French*
Timothy Halpin-Healy, *Associate Professor of Physics*
Cary Plotkin, *Assistant Professor of English*
Doris Davis, *ex-officio, Dean of Admissions*
Catherine Webster, *ex-officio, First-Year Class Dean*

WRITING FELLOWS PROGRAM

The Writing Fellows Program offers exceptional students with strong writing, reading, and communication skills an opportunity to become peer-tutors in writing. During their first semester in the program, students take a seminar and practicum in the teaching of writing (see page 138: *The Writer's Process*), usually in the Autumn term of their sophomore or junior year. As Writing Fellows, they go on to work in a number of different settings (e.g., The Writing Room, writing-intensive courses across the curriculum) with Barnard undergraduates at all levels and in all disciplines. Writing Fellows receive a stipend and are asked to make a commitment of three semesters to the program.

HIGHER EDUCATION OPPORTUNITY PROGRAM

The Higher Education Opportunity Program, a support service to meet the needs of New York State undergraduate women from backgrounds that are disadvantaged economically and academically, provides counseling, tutoring, and financial assistance. In a six-week summer program, all incoming HEOP students receive instruction in English, mathematics, research, and public-speaking skills. During the academic year, tutoring, workshops, and study groups are available in addition to academic and personal counseling.

PROGRAM PLANNING FOR STUDENTS INTERESTED IN HEALTH PROFESSIONS

The basic premedical and predental requirements are two semesters of introductory biology and one or two semesters of biology laboratory, all at the 2000 level or higher (BIO BC 2001, BC 2002, and laboratory: BC 2003 and BC 2004); two semesters of general chemistry and one semester of laboratory (CHE BC 1601, BC 3232); two semesters of organic chemistry and one semester of organic laboratory (CHE BC 3230, BC 3231, BC 3328); two semesters of physics with accompanying laboratory (PHY V 1003-1004; V 1103-1104; BC 1206-1207); and two semesters of English. Highly recommended courses, required by some schools, are two terms of calculus or other college-level mathematics and one additional chemistry laboratory (CHE BC 3338 or BC 3340).

Students should become familiar with the most recent edition of *Medical School Admissions Requirements*, an annual publication of the Association of American Medical Colleges, and Barnard's own *Handbook for Students Entering the Health Professions*, copies of which are available in 105 Milbank. The latter deals with many of the health professions (nursing, optometry, podiatry, physical therapy, and public health) as well as medicine and dentistry.

Pursuing a major in the sciences is not necessary for premedical students, provided they include the aforementioned required courses in their programs. The science requirements should be completed in the year prior to the year of desired entry, at which time students are advised to take the Medical College Admissions Test, normally offered in April. The test is repeated in the early fall for those who wish to retake it or who, for compelling reasons, were unable to take it in the spring.

All students who are interested in the health professions should consult their advisers as early as possible and should start a file with the pre-professional assistant and consult with the designated dean in the Office of the Dean of Studies by the junior year at the latest. Applications for the standardized tests, school catalogues, and other relevant materials are available in 105 Milbank.

PROGRAM PLANNING FOR LAW SCHOOL APPLICANTS

There are no specific course requirements for entry to law school, nor is there any specifically recommended major. Admission to law school is based largely on grade point average and Law School Admission Test scores, although other factors are taken into account. Students are encouraged to develop strong skills in writing and in speaking with precision and to take programs that require demanding critical analysis and effective study habits. Information about law schools and what makes a good lawyer can be found in the *Official Guide to U.S. Law Schools*, an annual publication of the Association of American Law Schools. Copies may be read in the Office of the Dean of Studies, 105 Milbank, which also maintains a library of current law school catalogues and other relevant information.

Students are encouraged to make themselves known to the pre-professional advisers in the junior year or earlier. The LSAT should be taken in June or October of the year prior to expected entry to law school; the June test is recommended because it allows for better planning. Applications for the LSAT and for the Law School Data Assembly Service (a required transcript analysis procedure) arrive in March each year and can be picked up in 105 Milbank any time thereafter.

PROGRAM PLANNING FOR STUDENTS INTERESTED IN JOURNALISM, SOCIAL WORK AND BUSINESS

Curricular planning should be made with an eye to some of the specific requirements in each of these fields. Familiarity with professional school catalogues in these areas is recommended. Information and printed literature is available in the Office of the Dean of Studies and in the Office of Career Services.

CREDIT FOR SUMMER STUDY

Students are expected to complete the work for the degree in eight academic terms. The granting of course credit for summer courses taken at other accredited institutions (including Columbia) is treated as transfer credit and is subject to some additional regulations. The maximum number of summer points that can be applied toward the degree for course credit is 16, subject to the approval of the Committee on Programs and Academic Standing. Although a student may not receive degree credit for summer courses exceeding this maximum, she may fulfill degree requirements with additional summer courses, subject to the approval of the Committee on Programs and Academic Standing, and in some cases, subject to satisfactory performance on a Barnard placement examination. The full regulations on credit for summer study are available at the Office of the Registrar on the Application for Approval of Summer Session Courses. The student may learn in advance

whether the courses she wishes to take in summer school meet the approval of the Committee on Programs and Academic Standing by completing the form and submitting it to the Office of the Registrar well before the end of the Spring term. Although the application may also be retroactive, the student places herself at risk of being denied degree credit if she fails to receive prior written approval from the Committee. The student is advised to consult the application for the full regulations, some of which are listed below:

1. No more than eight points may be counted for one five- or six-week summer session.
2. To be eligible for credit, a course normally must meet for at least five weeks.
3. Grades for courses taken in summer school must be letter grades C or higher; they are not included in the cumulative grade point average. These courses and grades will, however, be considered for admission to graduate or professional schools, which normally require the submission of an applicant's transcripts from all the colleges attended.

STUDY ABROAD

Several options for study abroad are available to academically qualified Barnard students. The Faculty has set the following guidelines for eligibility. By the time they plan to study abroad, students should:

- be competent in the language of instruction abroad, or, when the language of instruction is English, have some knowledge of the language of the host country;
- have completed all or nearly all of the basic requirements for the degree;
- have no outstanding Incompletes;
- have a good academic record;
- have worked out, in consultation with the major and study abroad advisers, a plan for the completion of all major and college requirements for graduation.

The educational interests of each applicant are of primary concern to the staff of the Dean of Studies in acting on a student's request to study abroad for degree credit. Interested students should begin the process of applying to study abroad by consulting the dean responsible for study abroad advising in the Office of the Dean of Studies during the first semester of the sophomore year. Students must obtain the approval of the study abroad adviser, the class dean, and the major adviser in order to receive the College's permission to study abroad for credit toward the Barnard degree.

Barnard offers opportunities for junior-year students to study in Great Britain at Oxford (Somerville College), Cambridge (Newnham College), The University of London (University College, London School of Economics, Queen Mary and Westfield College, and King's College), and the University of Warwick. Admission to these colleges is competitive.

Barnard students who wish to study for degree credit in Paris may apply to the **Reid Hall** program, which offers a varied and attractive curriculum in French language, literature, culture, art history, film studies, and women's studies. In addition to the courses offered at Reid Hall, students with sufficient preparation may, through this program, enroll in courses in the French university system in a variety of academic disciplines. To qualify for admission to Reid Hall, a student must have completed two years of college French with grades of B or better. It is possible to spend one term or an academic year in Paris. Each term, over 100 students take part in this program. Some are French majors, but most are not. The student body comprises undergraduates from Barnard and Columbia, as well as those from other colleges and universities. Reid Hall is owned and administered by Columbia University. It is located in the Montparnasse district of Paris,

near Luxembourg Gardens. The administrative staff of Reid Hall assists students in planning academic programs and in finding housing accommodations. Bulletins and applications are available in General Studies, 419 Lewisohn Hall, and in 105 Milbank. Interested students should consult the dean responsible for study abroad advising in the Office of the Dean of Studies to discuss their plans and to have the dean review and sign their applications. To receive degree credit for courses taken at Reid Hall, the approval of the Committee on Programs and Academic Standing is required on a special form available at the Office of the Registrar.

Barnard also participates in the program of the **Intercollegiate Center for Classical Studies in Rome**. Students who have completed at least four semesters of Latin above the elementary course, and at least one semester of elementary Greek, are eligible to apply for admission to the program of the Rome Center for one or two semesters, preferably in the junior year. Courses taken at the Rome Center may be counted toward the major, and in some cases, toward the fulfillment of the distribution requirements.

Barnard is a Supporting Institution of the **American School of Classical Studies at Athens** and the **American Academy in Rome**, and certain privileges of those schools are available, without fee, to graduates of the College.

Barnard also offers the opportunity for study in Japan at the **Kyoto Center for Japanese Studies** through its participation with Columbia in a consortium organized by Stanford University and several other institutions.

Course credit for courses taken at institutions abroad other than the Barnard-Columbia program in Paris is generally treated as transfer credit (see page 38).

STUDY AT JEWISH THEOLOGICAL SEMINARY

The Jewish Theological Seminary of America, located two blocks from the Barnard campus, offers opportunities to Barnard students for specialized study under a cooperative arrangement. Students may enroll in courses at the Seminary under any of three options: (1) individual courses; (2) a year's study in residence at the Seminary; or (3) a double degree program.

A student wishing to study at the Seminary should consult her adviser and obtain the written permission of the chair of her major department. Courses taken at the Jewish Theological Seminary are evaluated as transfer credit (see page 38 for rules on transfer credit). Students who wish to obtain simultaneously the degree of Bachelor of Arts from Barnard and Bachelor of Hebrew Literature from the Seminary must consult the appropriate dean in the Office of the Dean of Studies at Barnard and at the Seminary's List College and must be separately admitted to each institution.

Qualified Barnard students may request housing at the Seminary. Double-degree students who enroll in the Seminary College will be subject to both Barnard and Seminary tuition charges, adjusted on a pro-rata basis. Students taking individual courses pay the Seminary directly for those courses at an adjusted rate.

STUDY AT THE JUILLIARD SCHOOL

The Juilliard School at Lincoln Center offers opportunities to Barnard students for individual courses in music. For a five-year program leading to the Barnard A.B. and the Juilliard M.M., rigorous auditions are required for which early application must be made. Students interested in these options may obtain further information and audition dates by consulting the appropriate dean in the Office of the Dean of Studies or Dr. Gail Archer, Coordinator of the Barnard Music Program, at the time of admission to Barnard or as early as possible.

STUDY AT THE MANHATTAN SCHOOL OF MUSIC

The Manhattan School of Music is located one block to the north of the Barnard campus. Under a cooperative program of cross-registration, musically qualified Barnard students who pass required auditions have the opportunity to enroll in six semesters of private music lessons at the Manhattan School, subject to the regulations specified in the application form available at the Office of the Registrar. Majors and minors in Music may take eight semesters of lessons. Students must complete a Barnard approval form before receiving permission to enroll at the Manhattan School.

SPECIAL ACADEMIC PROGRAMS

Barnard offers a summer academic program for secondary school students, "Summer in New York: Barnard's Pre-College Program." Program information and applications are available in the Office of the Pre-College Program.

DOUBLE AND JOINT DEGREE INTRAUNIVERSITY PROGRAMS

Barnard offers double and joint degrees in coordination with other schools in the University system, including the School of International and Public Affairs, the School of Engineering, the School of Law, and the School of Dental and Oral Surgery. Details on specific programs are given below.

SCHOOL OF INTERNATIONAL AND PUBLIC AFFAIRS

Barnard College and the Columbia University School of International and Public Affairs offer a joint program leading to the A.B. degree at the end of four years and the M.I.A. (Master of International Affairs) after one additional year.

Application to this program is made through the Office of the Dean of Studies by March 1 of the junior year, but to ensure appropriate guidance and preparation, consultation is recommended in the sophomore year with the appropriate dean in the Office of the Dean of Studies at Barnard. Qualified students nominated by the Office of the Dean of Studies complete the application, which is sent to the School of International and Public Affairs. Finalists will be interviewed by an admissions officer at SIPA. The final decision on admission to the program rests with the SIPA Review Committee. Acceptance for the joint program is a provisional admission to SIPA for the M.I.A. degree. All provisionally admitted students will be required to submit a formal application to SIPA in the spring semester of the senior year. Formal applications for fellowship consideration are due by January 15; otherwise, applications are due by April 15.

A Barnard student's eligibility for the joint program with SIPA is governed by the following conditions:

1. A minimum grade point average of 3.3.
2. At least four semesters of matriculation at Barnard before enrolling in the joint program.
3. Fulfillment of all basic and distribution requirements before the senior year.
4. No more than four courses in the major to be completed during the senior year.
5. Completion of introductory courses in microeconomics and macroeconomics and a strong background in quantitative courses.

A Barnard student in the program must satisfy all Barnard degree requirements. Courses

in the School of International and Public Affairs may be used to fulfill major requirements only with the written permission of the chair of the major department. As a senior, after consultation with a SIPA dean and her major adviser at Barnard, she will elect 15 to 18 points of SIPA coursework, including a substantial part of the SIPA Core "A" Requirement. A typical program would include most of the 12 points of coursework at the 4000 level or above in the following areas:

- International politics
- Foreign historical and political processes
- International law
- United States foreign policy
- International policy analysis and management
- Graduate-level economics

A grade of B or better is required in courses to be credited toward the M.I.A. degree.

GRADUATE PROGRAM IN PUBLIC POLICY AND ADMINISTRATION

Barnard College and the Columbia University Graduate Program in Public Policy and Administration offer a joint degree program (the M.P.A. program) leading to the Bachelor of Arts degree at the end of four years and the Master of Public Administration after one additional year.

Application to the program is made directly to the Graduate Program in Public Policy and Administration at the School of International and Public Affairs, but the designated dean in the Office of the Dean of Studies should be consulted before the application is filed, preferably as early as the sophomore year. Admission to the joint program does not constitute automatic admission to the M.P.A. program. The student in the joint program applies for admission to the graduate program in the autumn term of her senior year. Final admission is conditional upon the applicant's receiving the A.B. degree from Barnard.

A Barnard student in the joint program must satisfy all basic, distribution, and major requirements for the A.B. degree at Barnard. Courses in the graduate program may be used to fulfill major requirements only with the written consent of the chair of the department in which the student is majoring. During the junior and senior years she must complete at least 24 points of course work at the 4000 level or above, including the first-year required core courses specified in the Bulletin of the Graduate Program in Public Policy and Administration. An internship, usually during the summer between the fourth and fifth years, is also required. In the fifth year of the program, a student completes at least 30 points, including a workshop and policy specialization requirements.

SCHOOL OF LAW

Each year Barnard College has the option of nominating, in conjunction with the Columbia University School of Law, two juniors with outstanding records to enter the Law School under the Accelerated Program in Interdisciplinary Legal Education (A.I.L.E.).

Each student must submit a record of 90 points, 60 of which will have been completed at Barnard. She must have fulfilled all degree requirements except those for the major, which she must be able to complete together with the final 30 points at the Law School. Twelve of the 30 must be in the liberal arts and the remainder in appropriate law courses.

To be nominated, a student must have an outstanding academic record (3.6 average or above) and have taken the LSAT by March of her junior year with a score in keeping with the median level of accepted applicants to the Columbia Law School in that academic year.

Students interested in the program should consult the Pre-law Dean in the Office of the Dean of Studies early in the junior year and with the Senior Class Dean to ensure fulfillment of graduation requirements. LSAT applications are available in the Office of the Dean of Studies; the test is usually offered in June, October, December, and February.

SCHOOL OF DENTAL AND ORAL SURGERY

A limited number of qualified students may enter the Columbia University School of Dental and Oral Surgery after three years of undergraduate work at Barnard. To be eligible for this program, the student must have completed 90 points of academic work at Barnard and all of the prerequisite courses for the School of Dental and Oral Surgery. To be eligible for the A.B. degree, she must have completed 120 points, 30 of which may be taken at the School of Dental and Oral Surgery, and she must have completed all of the general and major requirements of Barnard College.

A student interested in this option should consult with the health professions dean in her sophomore year for early program planning. Before her admission to the School of Dental and Oral Surgery, she should consult with the Senior Class Dean to make certain that she will be eligible for the A.B. degree.

SCHOOL OF ENGINEERING AND APPLIED SCIENCE

Barnard College and the Columbia University School of Engineering and Applied Science offer undergraduate programs in the professional branches of engineering and in the applied sciences under a cooperative program. In addition to the general admission requirements, coursework in mathematics through trigonometry, physics, and chemistry is desirable for entering students interested in engineering or applied science.

The first three years of the five-year program leading to the degrees of Bachelor of Arts and Bachelor of Science are spent under the jurisdiction of Barnard College, and a few courses may be taken in the School of Engineering and Applied Science. During the junior year the student applies for admission to the School of Engineering and Applied Science, where the remaining two years of more specialized engineering study are taken. Completion of the basic, distribution, major, and physical education requirements is required for the Barnard A.B. degree. A maximum of 30 points may be credited for engineering courses. Students interested in the program are encouraged to consult the adviser for combined programs designated by the Dean of Studies to plan an appropriate schedule of courses.

Details of specific entrance requirements are available from the Office of Admissions of the School of Engineering and Applied Science and from the Office of the Dean of Studies at Barnard.

AUDITING

STUDENT AUDITING

Matriculated students may audit courses in special instances by arrangements with the instructors. Permission to audit a course is granted at the instructor's discretion. Courses audited do not appear on the student's program or transcript, are not graded, and may not be subsequently converted to credit courses.

ALUMNAE AUDITING

Many Barnard courses are open to alumnae for auditing. No credit is given and no charge is made. The only requirement is that permission of the instructor must be obtained. Those interested in this program should contact the Alumnae Office and request a copy of the current catalogue and information about procedures.

REGISTRATION

REGISTRATION FOR NEW AND CONTINUING STUDENTS

Instructions and materials for registration are enclosed in individual packets distributed to students on the days designated for registration.

Students are expected to register during the registration times published in the College Calendar. Permission to register may be refused to students who do not observe the deadline for registration. Those students who have permission to register late will be assessed additional fees, as posted at the Registrar's Office.

Bills for tuition and fees (see page 23) are mailed before the beginning of the semester, and payment must be received by the deadline published in the College Calendar. In addition, any outstanding debts to the College or University, including library fines, must be paid before the student may register.

The final stage of the registration process is program filing (see below), which must be completed by the deadline published in the College Calendar. If for some extraordinary compelling reason, a student must enroll in less than a full-time program, the written permission of her Class dean in the Office of the Dean of Studies is required.

REGISTRATION FOR RESUMED EDUCATION STUDENTS

Resumed Education students are those Barnard students who have been away from the College for five years or more and are returning to complete the A.B. degree requirements and those Barnard graduates who are returning to the College to take additional course work. Resumed Education students are subject to regular registration procedures and deadlines.

REGISTRATION FOR COLUMBIA UNIVERSITY COURSES

Many courses offered in other divisions of the University are open to qualified Barnard students; those cross-listed in the Barnard Catalogue do not normally need special approval; all undergraduate courses listed in the Columbia College bulletin do not need special approval unless so indicated in the course description. Other courses not cross-listed in the Barnard Catalogue may require divisional or instructor's approval in addition to the approval of the student's academic adviser. Columbia University courses are entered on the Barnard program; specific instructions are enclosed in the registration packet. The student is expected to have reviewed the course description and prerequisites before consulting an adviser, to determine for herself whether she is eligible to enroll.

Certain Columbia courses are limited in enrollment. Barnard students wishing to register in such courses must take part in the limited-enrollment procedures.

Only students enrolled in the Education Program are eligible to take the Teachers College methods courses cross-listed in the catalogue. All Teachers College courses that are not cross-listed require approval of the Barnard Dean of Studies by submission of a petition form during the first week of the term, and also require payment of Teachers College tuition charges over and above Barnard tuition.

STUDENT PROGRAMS

PROGRAM FILING

The list of courses for which the student is registered each semester is known as the student's program.

Each student is required to schedule and attend a program-planning meeting with her adviser before the end of each semester (see College Calendar) and to consider carefully and seriously her selection of courses for the following semester.

During the program-planning period each first-year student and first-semester sophomore files her tentative program for the following semester with the Registrar. Each senior, junior, and second-semester sophomore is expect to consult with her major adviser about her program for the following semester.

During the program-planning period, various departments post sign-up sheets for laboratory courses, sectioned courses, and limited-size courses. A student who wishes to enroll in such a course or courses must enter her name on these sheets to ensure a place for the following semester.

Between registration and the date for program filing a student is required to reach a final decision on the courses she will take for the term. The final program, signed by her academic adviser, is filed at the Office of the Registrar before the published deadline. There is **no refund** issued for courses dropped after the published deadline for program filing, and any part-time program filed after that date will be assessed full tuition.

Note: the deadline for submission of programs is separate from, and somewhat later than, the registration deadline (see College Calendar). Programs filed late must be approved by each instructor and the Committee on Programs and Academic Standing, and will be assessed additional fees, which will be posted at the Registrar's Office. A student who is allowed to add a course after the deadline will be liable for tuition charges for the added course as well as the courses on her filed program, even if she also drops a course. A student who neglects to file a program is subject to academic probation.

ADJUSTMENT OF FEES AND REFUNDS FOR CHANGING PROGRAM OF STUDY

If a student changes her program and the tuition called for is lower than the amount she has already paid, she will be refunded the excess only if the alteration of her program is made by September 15 (last day of program filing) in the Autumn term and by January 26 in the Spring term. If the new program calls for higher tuition, the student is responsible for paying the additional charges promptly.

SCHEDULE OF CLASSES AND ROOM ASSIGNMENTS

Class times and room numbers are published in the Schedule of Classes, available during registration. Final information on changes in Barnard-taught courses (class times and rooms) is posted at the entrance to Milbank Hall. Disabled students needing wheelchair-accessible classrooms should provide this information to the Registrar during program planning.

COURSES WITH LIMITED ENROLLMENT

Enrollment in certain courses is strictly limited and students are encouraged to indicate their intent to enroll in those courses well before registration by entering their names on sign-up sheets which are posted outside departmental offices and which list criteria for course enrollment.

ADDING COURSES

Courses may not be added after the deadline for filing academic programs. Up to that deadline, the student may add courses either on the program form, if she has not already submitted it, or by an Application to Add a Course, available at the Office of the Registrar. Adding a course requires the signature on either the Program or Add form of the class adviser (first-year student or sophomore) or the major adviser (junior or senior).

DROPPING COURSES

Courses may be dropped by submission of an Application to Drop a Course, available at the Office of the Registrar. The form requires the signature of the class adviser (first-year student or sophomore) or the major adviser (junior or senior), and must be returned to the Office of the Registrar before the deadline published in the College Calendar. Courses dropped by the deadline will not be recorded on the permanent transcript. If withdrawal from a course is approved after the deadline to drop and by the deadline to withdraw, the course will be recorded on the permanent transcript with the notation W (Withdrawal). Action on any course which ends prior to the above dates must be taken before the last class meeting. No adjustment of fees (including any laboratory fees) is made for any course dropped after the deadline for program filing.

ATTENDANCE

Students are expected to attend classes regularly. Frequent or prolonged absences from classes may cause a student to forfeit the right to complete coursework or to take final examinations. A prolonged or serious illness is considered an excuse for absence only if the student files a statement signed by her physician with the Office of Health Services immediately upon her return to a regular attendance schedule.

POLICY ON RELIGIOUS HOLIDAYS

It is the policy of Barnard College to respect its members' observances of their major religious holidays. Conflicts with such holidays will normally be avoided in the scheduling of required academic activities and essential services, including registration deadlines that are part of the academic calendar, and final examinations.

In any instance of unforeseen or unavoidable scheduling conflict, student and instructor will work out suitable arrangements for satisfaction of academic requirements; in some instances, consultation with a dean or director may be appropriate. A listing of major religious holidays is distributed before the Autumn term to all faculty and administrators.

WITHDRAWAL AND READMISSION

A student not subject to discipline for infraction of College rules may withdraw from the College during the semester by submitting a "Notice of Intention to Withdraw" form to the Office of the Dean of Studies with the signature of the parent or guardian before the withdrawal deadline. If the student withdraws during the semester without submitting the proper notification, the term's work is subject to a grade of UW. (For information on partial refund of tuition, see page 25.) A student who plans to withdraw following the completion of a term must also file the appropriate form in the Office of the Dean of Studies. Withdrawals should be discussed with a student's academic adviser and Class Dean in advance of submitting the form. Confirmation of the withdrawal, and procedures and conditions for readmission will be sent to the student upon receipt of the Intention to Withdraw form.

Readmission of students who have withdrawn (or been withdrawn) by the College for non-academic reasons including health or disciplinary reasons will be considered by the Committee on Evaluation, composed of representatives from the offices of Student Life, Dean of Studies, Health Services, and Disability Services.

Students who wish to request readmission to the College must submit a letter to the Dean of Studies, with reasons for the request, by April 1 for an Autumn term return and by November 1 for a Spring term return. A Health Services evaluation and recommendation is usually required for Committee consideration.

The Evaluation Committee also meets regularly throughout the academic year to discuss

issues concerning students who are experiencing difficulties in academic, residential, and extracurricular life at the College. The Committee identifies available support services both on- and off-campus in order to assist students encountering difficulties. Finally, as needed, it considers the advisability of a student's withdrawal from the College for non-academic reasons. A description of the Committee and its procedures is available in the offices of the Dean of Studies and the Dean of Student Life.

EXCEPTIONS TO COLLEGE REGULATIONS

Requests by students for exceptions to college regulations governing the awarding of academic credit and requirements for the degree may be addressed to the Faculty Committee on Programs and Academic Standing. Petition forms are available at the Office of the Registrar and should be returned there. Requests which bear the appropriate signatures of advisers and instructors normally receive consideration within two weeks of their submission.

EXAMINATIONS

LANGUAGE PLACEMENT EXAMINATIONS

The foreign language requirement can be met by completing the required courses at Barnard (for individual languages see departmental curriculum statements), or by a College Entrance Examination Board (CEEB) score of 750, (700 or above in Hebrew) or, for transfer students, by having completed acceptable qualifying language courses.

Transfer Students
A transfer student who has a CEEB score is placed according to that score alone, if she has had no previous college language courses. The determination is made according to the provisions of an established scale (see page 34). A transfer student who has no CEEB score or previous college language courses must, if she wishes to continue with a particular language, take a placement test. Transfer students who are not required to take an examination are notified of language placement along with the evaluation of their transfer credit.

First-Year Students
First-year students are placed (or exempted) on the basis of their CEEB scores. Those with no scores who wish to continue languages studied in high school take placement examinations. The Class Dean advises all new first-year students of their language requirements.

Summer School Language Courses
Students, other than incoming transfer or first-year students, who take summer language courses and wish exemption or placement in their continuing language studies must take a language placement examination or secure departmental approval to receive degree credit and enter a higher level.

A student who does not wish to continue with a language in which she has been placed may begin the study of a new language.

Applications for Language Placement Examinations are available at the Office of the Registrar; the examination dates are published in the College Calendar. The examinations are evaluated and placement is made by the appropriate departments. Results are posted at the Office of the Registrar.

OTHER DEPARTMENTAL PLACEMENT EXAMINATIONS

Students may obtain exemption from or placement in certain courses by means of departmental placement examinations, (for example, in the Mathematics and Physics departments). Information and applications for the examinations are available in departmental offices, and deadlines are particular to each department.

MAKE-UP EXAMINATIONS DURING THE TERM

Instructors are not required to give make-up examinations to students absent from previously announced tests during the term. An instructor who is willing to give a make-up test may request a report of illness from the College physician or acceptable evidence of other extenuating circumstances.

FINAL EXAMINATIONS

No class meetings will be held on required reading days as set forth in the College Calendar. The dates for final examinations, given at the end of each term, are published in the College Calendar. Exact times and room numbers for individual examinations are sent to each student and posted on the bulletin board at the Office of the Registrar at least two weeks in advance of final examinations.

EXAMINATIONS

Barnard examinations are given under the Honor Code, which states that a student should not ask for, give, or receive help in examinations, nor should she use papers or books in a manner not authorized by the instructor. She should not present work that is not entirely her own except in such a way as may be approved by the instructor. The Honor Code further implies that any student or member of the faculty who has firsthand knowledge of a violation of these rules has an obligation to report it to the Dean of Studies or Honor Board.

A student who wishes to leave the room before the end of the examination period will submit her blue books to the instructor. If a student becomes ill during the course of the examination, she must notify the instructor and go to the College Physician, Brooks Hall, Lower Level. If less than an hour has expired, a grade of DEF will be recorded on the transcript and she will take a deferred examination. If a student remains for more than one hour of a three-hour examination, she will be graded on the work she has completed.

DEFERRED FINAL EXAMINATIONS

Deferred final examinations for Barnard courses, given in September and January (see College Calendar), are open only to those students who were absent from the regular examinations for reasons of illness or emergency. An instructor may decline to give a deferred examination to a student whose attendance has been unsatisfactory. Exceptions to these conditions can be made only by petition to the Committee on Programs and Academic Standing before the regular examination period begins.

Absence from final exams for reasons of health or other emergencies must be reported to the instructor and to the Office of the Dean of Studies in person or by telephone on the day of the examination. In case of an emergency, the Dean of Studies should be notified. For Columbia-taught courses, the instructor or the Columbia department must also be informed.

Examinations missed in December are to be taken the following January or, in cases of prolonged illness, in September of the same year. Those missed in May are to be taken in September of the same year. If a student absents herself without a compelling and valid excuse from a final or deferred examination, she will receive a grade of zero for that examination. Applications for Barnard deferred examinations are filed with the Office of the Registrar by dates designated in the College Calendar. A payment of a $10 handling fee for each examination must accompany the application. Arrangements for deferred examinations in other divisions of the University must be made by the student with the instructors, and examinations should be completed during the term following registration for the course.

EXAMINATIONS FOR STUDENTS WITH DISABILITIES

Individual arrangements can be made for disabled students unable to take examinations in the usual manner. Disabled students are normally expected to take their exams with the rest of the class, with disability-related modifications as needed. Students with disabilities who require nonstandard administration should consult with their instructors and the Director for Disability Services about reasonable accommodations. Students should obtain copies of the Test Accommodations Form in Room 7 Milbank and return them at the beginning of each semester.

GRADING AND ACADEMIC HONORS

GRADING SYSTEM

Academic standing and eligibility for graduation are determined by both the number of courses completed and the grades achieved. The system used at Barnard is as follows:

A+, A, A-	Excellent
B+, B, B-	Good
C+, C	Satisfactory
C-, D	Unsatisfactory but passing
F	Failure
P	Passed without a specific grade on student's election of P/D/F option
P*	Passed in a course for which only a grade of P or F is allowed
I	Incomplete
X	Absence from final examination
Y	For the first half of a two-semester course in which the grade for the second semester is the grade for the entire course
W	Approved withdrawal after "drop" deadline
UW	Withdrawal from a course without official notification to Registrar

Pass/Fail grades are recorded for all students in certain courses, e.g., physical education. Pass/Fail grades for individual students are subject to regulations described below.

Grades of I or X that were recorded in 1980-81 or before have been changed to NC (no credit) if the missing work was not submitted and the portion of the coursework that had been completed was passing; beginning 1981-82, the unsubmitted work has been calculated as zero in averaging the final grade. If the work completed is not of passing quality, the grade will be changed to F.

In the computation of grade point averages, marks for courses are awarded on the following scale:

A+ = 4.3	B+ = 3.3	C+ = 2.3	D = 1.0
A = 4.0	B = 3.0	C = 2.0	F = 0
A- = 3.7	B- = 2.7	C- = 1.7	

In order to be recommended for the degree, a student must maintain a cumulative average of 2.0 (C) for 120 or more points completed with passing grades. At the end of each term all records are examined. Normally only those students who have completed 12 points with cumulative averages of 2.0 or above are permitted to remain in college. Students whose work falls below the cumulative average of 2.0 may be permitted to continue at Barnard with probationary conditions at the discretion of the Committee on Programs and Academic Standing.

Courses in which the student receives the grade of D may not be counted toward the major requirement or the minor option. Required courses graded D that must be retaken for a higher grade to satisfy requirements for the major or minor will not receive degree credit when repeated.

GRADE REPORTS

The grade report for the Autumn term is enclosed in the student's registration packet in January. At the end of the Spring term, a cumulative grade report of all the student's work at Barnard is sent to her home address. The cumulative grade report is an unofficial transcript for which there is no charge. A student may request that her grade reports be sent to her parent(s) or guardian by filing a permission card with the Registrar. Parents who have established their daughter's status as a dependent may receive transcripts of her grades without her consent by writing to the Dean of Studies. If the student wishes additional transcripts, a charge of $3 per copy will apply (see Transcripts, page 57).

PASS/D/FAIL OPTION

A student may request a course to be graded under the Pass/D/Fail option by submitting a Request for Pass/D/Fail form in duplicate to the Office of the Registrar before the deadline published in the College Calendar. The forms are available at the Office of the Registrar about two weeks before the deadline. Under the Pass/D/Fail option the student is held responsible for fulfilling all course requirements. A passing letter grade of A, B, or C reported by the instructor is converted to P by the Office of the Registrar. A grade of D or F is not converted.

Some courses record Pass/Fail grades for all students enrolled, e.g., ENG BC 1202. Of the 120 points required for the degree, a maximum of 21 points of course work may receive a grade of Pass, whether elected or mandated (e.g., English BC 1202). The P/D/F option cannot be elected for First-Year English or any course designated to count toward the major or the minor.

No limitation is placed on the number of Pass grades that may be recorded in a single term, except those rules that apply to Dean's List, to eligibility for financial aid, and to the overall 21-point maximum.

Grades of P are not included in the grade point average. Grades of D or F, whether or not received under the Pass/D/Fail option, are computed. If the total number of points excluded from calculation in the grade point average exceeds 34, a sliding scale requiring higher qualifying averages is used to determine eligibility for general honors at graduation. (Like courses graded Pass, points credited for A. P., baccalaureates, some transfer work, and all summer courses are not calculated in the grade point average.)

The request for a course to be graded under the Pass/D/Fail option is irreversible. Subsequent change to a letter grade will not be allowed, and the option may not be elected retroactively.

INCOMPLETES

A student may for compelling reasons arrange with her instructor to take a grade of I (Incomplete) by means of written approval on forms available at the Office of the Registrar. The deadline for filing the Application for Incomplete is the last day of the reading period. However, in a course without a final examination, the deadline is the day before the final paper is due if that date precedes the last day of the reading period.

There are two Incomplete options. The "Early Incomplete" option requires submission of unfinished work to the Registrar soon after the end of the term by the date designated in the College Calendar and results in the removal of the "I" notation from the transcript. The second option extends the deadline to the first day of classes for the next Autumn term, but the "I" notation remains on the permanent transcript and is joined by the final letter grade. The full regulations that apply to Incompletes are listed on the Application for Incomplete form available at the Office of the Registrar. A student must have the permission of her instructor to qualify for an Incomplete, and she is required to use the form, which is a written guarantee of the terms set forth in it by the instructor.

ELIGIBILITY FOR STUDENT GOVERNMENT OFFICES

To be a candidate for election to a student government office, a student must be in good academic standing and free of disciplinary action for at least one year.

ELIGIBILITY FOR INTERCOLLEGIATE ATHLETICS

Any student at Barnard College, Columbia College, or the Columbia School of Engineering and Applied Science who is pursuing the undergraduate program or a combined program toward a first degree is eligible for intercollegiate athletics, provided that certain conditions are met. To be eligible for athletic activities, the student must

- be a candidate for a bachelor's degree;
- be registered for at least 12 points of credit per semester;
- be in satisfactory academic standing;
- have passed by the beginning of the academic year 24 points if in the second year, 52 points if in the third year, or 86 points if in the fourth year;
- have attended the University for not more than eight terms;
- not have completed the requirements for a bachelor's degree.

An eligibility form must be filed with the Director of Athletics. The completed form is sent to the Office of the Registrar, where eligibility is determined by examining the student's record. Questions about eligibility should be referred to the Dean of Studies.

DEAN'S LIST

The Dean's List, which includes the names of students who deserve special mention for superior scholarship, is compiled at the end of each academic year. To be eligible, a student must be enrolled at Barnard for both terms and complete at least 12 letter-graded points each term with a minimum grade point average of 3.4 for the academic year. (P-graded points are excluded.) Her grade point average will be based on all her letter grades in the A to F range.

TRANSCRIPTS

Transcripts are ordered by the student or alumna by written request to the transcript secretary in the Office of the Registrar. An official Transcript Request Form is available, but the request may also be made by letter, provided that the letter includes the following: student's name (including maiden and married names) and Social Security number, dates of attendance at Barnard, purpose of the transcript, number of copies desired, specifications as to whether the transcript should or should not be delayed until the latest semester's grades have been entered, name(s) and address(es) to which the transcript is to be sent, the student's full signature, and a $3 check or money order for each transcript ordered. Official copies of transcripts (those bearing the seal of the College) can be sent only to academic institutions, business organizations, and government offices. Unofficial copies of transcripts may be sent to the student. All copies of transcripts, official and unofficial, are sent only at the written request of the student, and are subject to the $3 fee. There is no charge, however, for a transcript sent to a division of the University. Barnard will not send copies of transcripts from other schools; they must be requested directly from the institutions attended.

HONORS

The Faculty awards honors to students who complete work for the degree with distinction (cum laude), with high distinction (magna cum laude), and with highest distinction (summa cum laude). Students whose records include study at other institutions will be eligible for honors if both the overall and the Barnard grade point averages meet the designated requirements. Grades for summer work are excluded from the grade point average. If the total number of points for summer credit, for courses graded P or P*, and for

transfer grades that do not have Barnard equivalents exceeds 34 of the 120 points for the degree, the qualifying averages are computed on a sliding scale. Departmental honors are awarded to a small percentage of eligible graduates nominated by their departments for distinguished work in their major fields.

PHI BETA KAPPA

The Barnard section of the Columbia University chapter of Phi Beta Kappa was founded in 1901. Election to the national honor society is a recognition of scholarship, and Barnard students of exceptionally high standing are eligible. Junior election will require a minimum of 86 completed points and senior election, 102. Questions concerning Phi Beta Kappa should be referred to the Registrar or the Office of the Dean of Studies.

COURSES OF INSTRUCTION

THE CURRICULUM

The Barnard curriculum consists of 37 departments and programs. At present, 25 departments and 14 interdisciplinary programs offer majors, and students may also elect minors if they wish. All academic programs listed are planned for 1995-96; their listing in this catalogue is not a guarantee of their availability, and the College may revise its degree requirements from time to time.

CLASSES

The usual schedule consists of 15 points each semester, but depending on a student's interests or departmental requirements, additional courses may be added. However, an additional fee is charged per point for a program exceeding 18 points (see page 23 for the fee schedule). Classes vary in size. Those in which student participation is important are small. Introductory courses and classes taught primarily by the lecture method are often divided into smaller groups for conference and discussion. Laboratory work in the sciences is conducted with modern equipment, and computer facilities are available at Barnard.

COURSES OF INSTRUCTION

Course descriptions will be found in the following pages. Room assignments and all other registration information are published in a separate bulletin and distributed during registration.

Autumn term courses are followed by an x; Spring term courses are followed by a y.

Indivisible **Barnard** courses that run throughout the year are marked with a hyphen between the numerals (e.g., Spanish V1101-V1102). No credit is given for work in an indivisible course dropped at mid-year without the written consent of the instructor and department chair and the approval of the Committee on Programs and Academic Standing. The first semester of elementary language, whether taken at Barnard or elsewhere, normally does not receive degree credit unless the second semester is completed. However, a single exception to this rule is allowed on written request to the Registrar.

Divisible Barnard courses, which run throughout the year, are marked with a comma between the numerals (e.g., Environmental Science BC 1001x, BC 1002y). The first half of such courses may be taken separately. Admission to the second half without completion of the first half is granted only with written permission of the instructor. Certain courses are offered in both Autumn and Spring terms (Economics BC 1001x, BC 1001y) and may be taken in either term.

The following alphabetical prefixes designate the division of the university for whose students the course is primarily offered or indicate joint courses. The aforementioned guidelines regarding hyphens and commas between course numbers for BC courses do not necessarily apply to courses offered by other faculties.

BC – Barnard College
C – Columbia College
F – School of General Studies
G – Graduate School of Arts and Sciences
H – Reid Hall, Paris
R – School of the Arts
V – Joint undergraduate course (Barnard with Columbia College and/or the School of General Studies)
W – Other inter-faculty course

The level of the course is generally as follows:

1000-3999 Undergraduate
4000-4999 Advanced undergraduate and first-year graduate
5000-8999 Graduate, normally not open to undergraduates

AMERICAN STUDIES

414 Lehman Hall 854-5046

This program is supervised by the Committee on American Studies:

Professor of History: Rosalind N. Rosenberg (Director)

Professor of Anthropology: Nan Rothschild

Professor of Art History: Barbara Novak

Associate Professor of English: William Sharpe

Associate Professor of History: Beth Bailey

Professor of History: Robert A. McCaughey

Professor of Political Science: Demetrios Caraley

Professor of Religion: Randall Balmer

Assistant Professor of Religion: Judith Weisenfeld

Professor of Sociology: Jonathan Rieder

Professor of Spanish: Alfred Mac Adam

The American Studies Program offers an interdisciplinary major for students who want to study the society and culture(s) of the United States by focusing on a central subject, theme, or set of questions. In consultation with the program director, each student chooses an adviser from among several departments and works closely with the program director and her adviser to define a thematic concentration within the major. For example, a student might define her concentration as "Gender and American Culture," or "19th-Century American History and Literature," or "The African-American Experience," or "Culture and Politics," or "Community in American Society." Required courses in American history and literature, as well as the junior colloquium and senior seminar, offer a solid foundation for interdisciplinary study.

Prospective majors must see the program director for more information about structuring concentrations and help in selecting an adviser. The program director can provide examples of possible programs and access to a file of syllabi from American Studies courses in other departments. Both Barnard and Columbia College courses will satisfy major requirements.

REQUIREMENTS FOR THE MAJOR

The American Studies major requires a minimum of 12 courses:

1. Two-semester sequence American History Survey, HIS BC 1051 and 1052. Majors are urged to complete this requirement by the sophomore year. This requirement may be waived for those with scores of 4 (waives one semester) or 5 (waives both semesters) on the Advanced Placement Exam. Those students should substitute upper-level American history courses.
2. One semester of the American Literature sequence (ENG BC 3179, 3180, 3181, 3182).
3. Junior Colloquium: Approaches to American Cultural History, AMS BC 3401 (offered only in Autumn term).
4. Senior Seminar (AMS BC 3703 and 3704). In some cases, a senior seminar sequence in one of the departments may be substituted for AMS BC 3703 and 3704.

5. A set of at least six courses organized around a theme or subject. One of the six courses must be a seminar or colloquium. The program director and adviser must approve both the theme and the set of courses the student selects for the concentration.

No minor is offered in American Studies.

COURSES OF INSTRUCTION

AMERICAN STUDIES—HISTORY

ASH BC 3401x
Approaches to American Cultural History
Colloquium on methodologies of American Studies. With the participation of American Studies faculty from several departments, students will learn about different sources and methods that can be used to study a given subject. Topics will vary. —N. Woloch
4 points. M 2:10-4:00

AMS BC 3454y
Cultural Studies
A theoretically and methodologically based examination of the historical production of popular culture in America. —B. Bailey
4 points. W 11:00-12:50

AMS BC 3703x, 3704y
Senior Seminar
Individual research on topic related to major thematic concentration and preparation of senior thesis.—Staff
Enrollment limited to senior majors.
4 points. W 4:10-6:00

AMS BC 3999x, AMS BC 3999y
Independent Research
—Staff
3 or 4 points. Hours to be arranged.

AMERICAN STUDIES COURSES IN OTHER DEPARTMENTS

Students should consult appropriate department listings for complete information about these courses:

Anthropology

V 1002 Interpretation of Culture
V 1007 The Origins of Human Society
V 3011 Living in Society: Social Relations
V 3038 Ethnicity and Race
V 3041 Theories of Culture: Past and Present
V 3070 The Study of Cities: An Archaeological Perspective
V 3290y The Asian-American Experience
BC 3412x Male and Female: Cultural Construction of Gender
BC 3868 Ethnographic Field Research in New York City
W 4254 Archaelogy of the American Southwest

Art History

C 3643 The American City: A History of Urban Form and City Planning

Dance

BC 1247, 2248, 3249 Jazz Dance I, II, Advanced *(all three required)*
BC 3574 Contemporary Choreographers and Their Works
V 3577 Performing the Political: Embodying Change in 20th-Century American Performance

Economics

BC 2010 Sex, Discrimination, and the Division of Labor
BC 2013 Economic History of the United States
BC 2014 Topics in Economic History
BC 3065 Seminar in Business Organization

English

BC 3140x
Sec. 1 Colonial Encounters: Visions and Revisions
Sec. 2 American Jewish Writers
Sec. 5 American Autobiography
BC 3140y
Sec. 1 Explorations of Black Literature: 1760-1890
EWS BC 3144 Minority Women Writers in the United States
BC 3179 American Literature to 1800
BC 3180 American Literature: 1800-1870
BC 3181 American Literature: 1871-1945
BC 3182 American Fiction
BC 3185 Modern British and American Poetry
BC 3187 American Writers and Their Foreign Counterparts
BC 3997x Senior Seminar (with instructor's permission)
Sec. 4 19th-Century American Women Writers
BC 3998y Senior Seminar (with instructor's permission)
Sec. 4 The City in Literature: London and New York
Sec. 5 The Family in 20th-Century American Fiction

W 4621 African-American Texts: The Harlem Renaissance and Beyond

History

BC 1051, 1052 Survey of American Civilization
BC 3052 The Constitution in Historical Perspective
BC 3056 The American Civil Rights Movement
BC 3067 America Since 1945
BC 3074 History of Sexuality in America
BC 3082 American Women in the 20th Century
BC 3085 America in the 1960s
BC 3454 Cultural Studies
BC 3458 War and 20th-Century American Culture
BC 3459 Education in American History
BC 3463 American Women in the 1920s
BC 3469 Elites in 20th-Century America
BC 3464 Higher Learning in America
BC 3478 The New Deal and the Modern State

Music

V 2016 Jazz
V 3379 Twentieth-Century Music
V 3380 Music since 1945
V 3470 Issues in Rock Music and Rock Culture

Pan African Studies

BC 3003 Introduction to African American History and Culture

Philosophy

ESP BC 3025 Ethics and Environment
BC 3147 Philosophical Issues of Feminist Theory
BC 3720 Ethics and Medicine
BC 3758 Philosophy of Education

Political Science

BC 3001 Dynamics of American Politics
V 3313 American Urban Politics
BC 3322 The American Congress
BC 3326 Colloquium on Civil Rights and Liberties
BC 3327 Colloquium on the Content of American Politics
BC 3331 Colloquium on American Political Decision Making
V 3320 Contemporary Black Politics
BC 3333 Colloquium on Policy Analysis
W 4311 American Parties and Elections
W 4316 The American Presidency

Religion

V 3755x African-American Religion
V 3804y
Sec. 37 Black Women's Religious Experiences
V 3502 The History of Religion in America I
V 3503 The History of Religion in America II

Sociology

BC 1003 Introduction to Sociology
V 3200 Gender, Class, and Race
V 3215 American Society and Politics
V 3216 Organizations in Modern Society
V 3228 Sociology of Medicine
V 3310 Gender and Deviance
V 3320 Social Problems
V 3920 Science and Society
BC 3250 Sociology of Jewish Life in America
V 3247 The Immigrant Experience: Old and New

Spanish

CPS 3204 Literature of the Americas

Women's Studies

V 1001 Women and Men: Power, Politics, Poetry
BC 3111, 3113 Major Texts of the Feminist Tradition, I and II
BC 3117 Women and Film
V 3502 Women and Science
BC 3683 The Politics of Family
BC 3121 Black Women in America
BC 3508 Asian American Women's Literature

ANCIENT STUDIES

216 Milbank Hall 854-2852

This program is supervised by the Committee on Ancient Studies:
Assistant Professor of Art History (Columbia): Alexander MacGillivray (Representative for Columbia)

Professors of Classics: Helene Foley (Representative for Barnard)

Associate Professor of History (Columbia): Richard Billows

Ancient Studies is designed to allow the student to explore various aspects of the ancient Mediterranean and Mesopotamian cultures while concentrating on one of these major civilizations. By studying these cultures in several academic disciplines the student will acquire a general knowledge and a context for her area of specialization. At Barnard and in the University a very large number of courses pertaining to antiquity are offered each year, and the program prepares an annual list to aid students in making their selections. This list may be obtained from the Representative for Barnard.

REQUIREMENTS FOR THE MAJOR

Each student, after consultation with the Representative for Barnard, chooses an adviser whose field is closely related to her own and with whom she will do her senior reading. The programs of all the students are reviewed by the Ancient Studies Committee, in order to maintain control and a sense of collective enterprise.

A total of 36 points are required in the major, including at least four courses in one geographical area or period; courses in at least three departments (to ensure proper interdisciplinary training and experience); the elementary sequence of a relevant ancient language; the appropriate history course; and at least the first semester of *Ancient Studies V 3998, V 3999.*

In some cases, a senior seminar in one of the departments may be substituted for *Ancient Studies V 3998, V 3999.* Ancient language courses may be used toward the major requirement; however, where a second ancient language is offered, one second-year sequence must be offered to gain credit for the first year.

No minor is offered in Ancient Studies.

COURSES OF INSTRUCTION

ANC V 3997x, ANC V 3997y
Directed Readings in Ancient Studies
A program of readings in some aspect of Ancient Studies, supervised by an appropriate faculty member chosen from the departments offering Ancient Studies courses. Testing by a series of essays, one long paper, or oral or written examination(s). —Staff
Permission of the departmental representative required. 3 points. Hours TBA.

ANC V 3998x, ANC V 3999y
Directed Research in Ancient Studies
A program of research in Ancient Studies. Research paper required. For 3999y, the topic must be submitted to the departmental representative and the appropriate adviser decided upon by November 15 of the semester preceding that in which the student will be enrolled in the course. For 3998x, the corresponding deadline will be April 1 of the semester preceding that in which the student will be enrolled in the course. The student and the departmental representative will request supervision of the research paper from an appropriate faculty member in a department offering Ancient Studies courses. —Staff
Permission of the departmental representative required. 3 points. Hours TBA.

A list of other relevant courses of instruction offered in 1995-96 may be obtained from the Representative for Barnard.

ANTHROPOLOGY

411 Milbank Hall 854-4315, 5417

Professors: Morton Klass, Abraham Rosman, Nan Rothschild (Chair), Paula G. Rubel, Judith Shapiro (President)

Assistant Professor: Lesley Sharp

Other officers of the University offering courses listed below:

Professors: Alexander Alland[1], Myron Cohen, Ralph Holloway, Don J. Melnick, Michael Taussig[2], Elliott P. Skinner

Associate Professors: Elaine Combs-Schilling, Terence D'Altroy[2], Roger Lancaster, Katherine Newman[1]

Assistant Professors: Marina Cords[2], David Koester, Olivier de Montmollin, Glenn Stone, Linda Green

[1]Absent on leave 1995-96

[2]Absent on leave Autumn term

Anthropology is the study of the biological and cultural development of the human species and of the variety of human societies and their cultures. The student majoring in this field will acquire an understanding of humans and their ways that is not bound by her own time and culture. In doing so, she will find herself drawing upon the literature of such diverse disciplines as genetics, archaeology, ethnography, linguistics, and the social sciences. Students with a degree in anthropology may undertake graduate and professional study in anthropology; they may also enter upon careers in other fields, such as development, education, government, journalism, labor organization, law, medicine, or social work administration, where the value of a training in anthropology is becoming increasingly recognized. The practical and applied dimensions of anthropology have increased significantly in recent years, and the profession attempts to serve many non-academic needs both in American society and international organizations.

Several major museums and libraries in New York City offer exceptional opportunities for research. Various summer schools provide opportunities for research in archaeology and ethnography, and under certain circumstances such work may be credited toward the Barnard degree. Students interested in cultural anthropology are encouraged, whenever possible, to conduct research in the New York area, or, during their summer vacations, in other localities.

All courses, except those limited to majors, satisfy the College's distribution requirements. Courses listed as W 4000 are open to majors, non-majors, and interested graduate students.

The department also cooperates with related programs such as American Studies, Foreign Area Studies, Pan-African Studies, Urban Studies, and Women's Studies, and with other departments offering, as an option to their majors, a four-course cluster in Anthropology. Arrangements for combined, double, joint, and special majors are made in consultation with the chair.

REQUIREMENTS FOR THE MAJOR

Every major is urged to acquire a general knowledge of three of the four fields of anthropology (cultural and physical anthropology, archaeology, and anthropological linguistics) and of their interrelationship. To this end, the student's program should be designed in consultation with her adviser, and as soon as possible after the declaration of the major. Continuing and frequent meetings with the adviser are encouraged.

Ten courses are required for the major, including:

ANT V 1002 *The Interpretation of Culture*

and one of the following:

ANT V 1007 *The Origins of Human Society*
ANT V 1008 *The Rise of Civilization*
ANT V 1010 *The Human Species: Its Place in Nature*

plus:

ANT V 3011 *Living in Society: Social Relations*
ANT V 3041 *Theories of Culture: Past and Present*

and

BC 3871x-BC 3872y *Problems in Anthropological Research*

plus at least four other courses of the student's own choosing.

In consultation with advisers, programs will be designed so as to reflect the students' interests and plans—whether they intend to go on to graduate studies in anthropology, or expect to enter other fields, such as medicine, administration, public relations, law, social work, and so on.

Senior Essay

All students majoring in Anthropology are required to submit an "Essay" of substantial length and scholarly depth. Such a paper will usually be written during the course of the Senior Seminar or, under special circumstances and with department approval, in one or two semesters of BC 3999x, y *Individual Projects.*

REQUIREMENTS FOR THE MINOR

The minor consists of five courses: ANT V 1002; one of the following: V 1007, V 1008, or V 1010; plus three other Anthropology courses selected in consultation with the chair.

Pre-law and premedical students who wish to minor in anthropology should seek the advice and approval of the department chair.

COURSES OF INSTRUCTION

GENERAL COURSES

ANT V 1002x,y
The Interpretation of Culture

The anthropological approach to the study of culture and human society. Using case studies from ethnography, the course explores the universality of cultural categories (social organization, economy, law, belief system, art, etc.) and the range of variation among human societies.
3 points.
x: Sec. 1 M W 2:40-3:55—R. Lancaster
Sec. 2 Tu Th 1:10-2:25—P. Rubel
y: Sec. 1 M W 2:40-3:55—M. Klass
Sec. 2 Tu Th 4:10-5:25—R. Morris
Discussion hours TBA. *I S*

ANT V 1007x, y
The Origins of Human Society

An archeological perspective on the earliest forms of human culture in the prehistoric past. Topics include: hominids sharing food; people living in a variety of environments whose economies range from foraging to early agriculture; and the origins of sedentism and social complexity.
3 points. x: Tu Th 10:35-11:50—N. Rothschild
y: M W 1:10-2:25—G. Stone *I S*

ANT V 1008y
The Rise of Civilization

The rise of major civilizations in prehistory and protohistory throughout the world, from the initial appearance of sedentism, agriculture, and social stratification through the emergence of the archaic empires. Description and analysis of a range of regions that were centers of significant cultural development: Mesopotamia, Egypt, the Indus River Valley, China, North America, Mesoamerica, and Andean South America. —O. de Montmollin
3 points. Tu Th 10:35-11:50 *I S*

ANT V 1010x
The Human Species: Its Place in Nature

Designed to acquaint students with a variety of scientific disciplines through the investigation of human evolution. Specifically, Darwin's theory of evolution; Mendel's principles of inheritance; major patterns of organic evolution; primate behavior,

ecology, and evolution; and the fossil remains and trends in human evolution. —D. Melnick
3 points. M W 11:00-12:15 *S*

ANT V 1011y
Behavioral Biology of the Living Primates
Study of non-human primate behavior from the perspective of phylogeny, adaptation, physiology and anatomy, and life history. Focuses on the four main problems primates face: finding appropriate food, avoiding being eaten themselves, reproducing in the face of competition, and dealing with social partners. —M. Cords
Prerequisite: V 1010.
3 points. M W 11:00-12:15 *S*

ANT V 1015y
Multiculturalism:
Ways of Looking at Other Cultures
An anthropological exploration of cultural differences and multiculturalism. Material will be drawn from cultural texts and ethnographies. —A. Rosman
3 points. Tu Th 9:10-10:25 *I S*

Linguistics LIN V 1101x, y
Introduction to Linguistics
See Linguistics listing.

TOPICAL COURSES

ANT V 3005y
Societies and Cultures of Africa
—L. Sharp
Not offered in 1995-96. *II S*

ANT V 3009y
Peoples and Cultures of
North Africa and the Middle East
Addresses diversity and commonality in the construction of political authority, gender, and justice in the Islamic world, focusing particularly on the cases of Egypt and Morocco. Using Foucault, analyzes how power makes itself convincing and where some of power's frailty lies. Includes discussions of political authority and gender in early Islam, the global economy and polity of the 1100s–1300s, orientalism, colonialism, and post-colonial hybrids of the late 20th century. —E. Combs-Schilling
3 points. Tu Th 2:40-3:55 *II S*

ANT V 3011x
Living in Society: Social Relations
Institutions of social life. Kinship and locality in the structuring of society. Monographs dealing with both literate and non-literate societies will be discussed in the context of anthropological fieldwork methods. —A. Rosman
Prerequisite: An introductory anthropology course.
3 points. Tu Th 10:35-11:50 *I S*

ANT V 3014x
Societies and Cultures of East Asia
Introduction to the contemporary societies of China, Japan and Korea, with special reference to the process of social change; emphasis on the interconnections between local communities and the total national societies. —M. Cohen
3 points. M W 2:40-3:55 *II S*

ANT V 3015y
Chinese Society and Culture
3 points. Not offered in 1995-96. *II S*

ANT V 3017x
Caribbean Societies in the Global System
From Columbus to Castro, the societies of the Carribean as they have been influenced by powerful sociocultural forces emanating from the global arena. Characteristics of these societies are analyzed from the perspective of theories of pluralism, dependency, and globalism. —E. Skinner
3 points. Tu Th 1:10-2:25 *III S*

ANT V 3021x
Sex Roles in Cross-Cultural Perspective
3 points. Not offered in 1995-96. *I S*

ANT V 3024y
Africa and Modernity: A Changing Continent
Major forces at work in contemporary Africa and examination of changes that are taking place in the economic, social, political, educational, and artistic institutions of the emerging nation-states of that continent. —E. Skinner
3 points. Tu Th 1:10-2:25 *II S*

ANT V 3031x
Scientific Reasoning and Archaeology
3 points. Not offered in 1995-96. *S*

ANT V 3035y
Popular Religion in Chinese Society
3 points. Not offered in 1995-96. *II S*

ANT V 3036x
Peasant Societies
3 points. Not offered in 1995-96. *I S*

ANT V 3038x
Ethnicity and Race
3 points. Not offered in 1995-96. *I S*

Anthropology-Women's Studies ANW V 3039y
Women in Third World Development
3 points. Not offered in 1995-96. *I S*

ANT V 3041y
Theories of Culture: Past and Present
Intellectual currents contributing to the development of anthropology as a discipline. Theoretical writings of the anthropological ancestors as well as those of current practitioners will be considered. —P. Rubel/L. Sharp
3 points. Tu Th 10:35-11:50 *I S*

ANT V 3055x
Strategy of Archaeology
Strategies archaeologists use to reconstruct and explain the past. Topics include dating, subsistence and settlement analysis, and the archaeology of modern societies. —G. Stone
3 points. Tu Th 2:40-3:55 *I S*

ANT V 3068y
Myths, Sagas, and Cultures of the Far North
Primarily an introduction to Old Norse literature and culture through the reading of the ancient poetry and sagas of Iceland and interpretation of the myths, legends, and stories they contain. It also looks at folklore from Finland and circumpolar Siberia and its role in the development of national and ethnic consciousness in these regions. —D. Koester
3 points. M W 10:35-11:50 *III S*

ANT V 3070y
The Study of Cities:
An Archaeological Perspective
A consideration of cities from several points of view; a developmental and comparative perspective, looking at urban origins. Focus on New York City from its inception to the present, examining its spatially defined subunits ("neighborhoods"), structured by class and ethnicity. —N. Rothschild
3 points. Tu Th 9:10-10:25 *I S*

ANT V 3100y
Anthropology of Urban Life
3 points. Not offered in 1995-96. *I S*

ANT V 3117y
Latin America: Peoples, Cultures, Issues
An introduction to distinctive ways of life in Latin America, with attention given to such areas as work, religion, gender, and kinship, and some major social, economic, and political issues that have shaped past and current events. Organized in terms of historical junctures that define contemporary cultural themes—e.g., conquest, colonialism, and revolt. Features perspectives from social sciences and humanities, readings by Latin American authors, and films on colonial encounters and post-colonial dilemmas. Additional topics: new social movements; migrations, transculturation, and borderlands. —R. Lancaster
4 points. Tu 11:00-1:00, Th 11:00-12:00 *III S*

ANT BC 3142x, y
Colloquium: Current Anthropological Theory
Intensive analysis of selected theoretical approaches and issues in anthropology.
Enrollment limited to 16 students. *I S*

x: Male and Female: Cultural Constructions of Gender
An examination of male and female perspectives as they affect analysis of social structure, symbolism, and political authority. —A. Rosman
4 points. W 11:00-12:50 *I S*

y: Interpretation and Explanation in Anthropology
An examination of the different understandings, interpretations, and explanations which have been offered in anthropological theory and research over the past decade. —M. Klass
4 points. M 9:00-10:50 *I S*

ANT V 3160x
The Body and Society
An introduction to medical anthropology, whose purpose is to explore health, affliction, and healing cross-culturally. Theory and methods from other fields will be drawn on to address critiques of biomedical, epidemiological, and other models of disease; the roles of healers in different societies; and different conceptions of the body and health. —L. Sharp
3 points. M W 1:10-2:25 *I S*

ANT W 3201y
Introductory Survey of Biological Anthropology
Prerequisite: V 3201 or permission of the instructor.
4 points. Not offered in 1995-96. *S*

ANT W 3204x
Dynamics of Human Evolution
Prerequisite: V 3201 or permission of the instructor.
4 points. Not offered in 1995-96. *S*

ANT V 3250x
Aztecs, Mayas, and the Mesoamerican Past
Traces the cultural history of ancient civilizations in Mexico and Central America from their origins to the Spanish conquest. —O. de Montmollin
3 points. Tu Th 4:10-5:25 *III S*

ANT V 3280y
Black Nationalism and the Race/Culture Dialogue in the U.S.
3 points. Not offered in 1995-96. *I S*

ANT V 3320y
Culture, Tourism, and Development
3 points. Not offered in 1995-965. *I S*

ANT V 3405x
History and Time in Anthropology
Introduces various topics important in understanding areas of the relationship between anthropology as a discipline and history as both a form of scholarly inquiry and a mode of thought and experience. Divided into six segments, each of which presents a different perspective on anthropology and the way in which it integrates or ignores a historical perspective. —D. Koester
3 points. M W 10:35-11:50 *S*

ANT V 3410x
Theory and Controversy in Anthropology
A discussion of classic controversies in anthropology, how anthropological ideas have evolved, and some of the issues involved. Fieldwork, the Virgin birth, marriage, symbols and pragmatics, and relativism are among the topics covered. —K. Ikeda
3 points. Tu Th 4:10-5:25 *S*

ANT V 3460y
Gender and Ethnographic Representation
3 points. Not offered in 1995-96. *S*

ANT V 3700x
Colloquium: Anthropological Research Problems in Complex Societies
4 points. Not offered in 1995-96. *I S*

ANT V 3712y
Colloquium: Lines that Divide: Race, Gender and Ethnicity in Contemporary America
4 points. Not offered in 1995-96. *S*

ANT V 3713y
Colloquium: Ties that Bind: Institutions and Communities in Contemporary America
Enrollment limited to 25.
4 points. Not offered in 1995-96.

ANT BC 3868y
Ethnographic Field Research in New York City
A seminar-workshop on field research in New York City. Exploration of anthropological field research methods followed by supervised individual field research on selected topics in urban settings. —L. Sharp
Open to non-majors by permission of instructor.
4 points. Tu 2:10-4:00 *III S*

ANT V 3910x
Colloquium: Peasant Societies and Their Transformation
Anthropological and historical perspectives on peasant societies of France and China. The characteristics of the traditional peasant societies of both countries and their transformations in modern times. —M. Cohen/I. Woloch
4 points. Tu 11:00-12:50 *I S*

ANT V 3920x
Economy and Society in Prehistory
Introduction to archaeology or permission of the instructor required. Enrollment limited to 15 students.
4 points. Not offered in 1995-96. *I*

ANT V 3929x
Colloquium: Legacy of Power and Violence: Central America in Anthropological Perspective
An exploration of the nature of power, violence, and domination and their expression in Central America, the role anthropology has played and plays in representing the other, and the active and passive ways the subaltern classes respond and resist oppression and repression. —L. Green
Enrollment limited.
4 points. Tu 9:00-10:50 *S*

ANT V 3930x
Archaeological Perspective on Cultural Evolution
4 points. Not offered in 1995-96. *I S*

ANT V 3936x
Madness and Civilization: Cross-Cultural Perspectives
Prerequisite: One course in anthropology.
Limited to 20 students.
4 points. Not offered in 1995-96. *I S*

ANT V 3938x
Colloquium: Culture and Performance
4 points. Not offered in 1995-96. *S*

ANT V 3940x
Current Controversies in Primate Behavior and Ecology
Enrollment limited. Prerequisite V1010, V3201 or permission of the instructor.
4 points. Not offered in 1995-96. *S*

ANT V 3945x
Colloquium: Colonialism and the Family in Africa
E. Schildkrout
4 points. Not offered in 1995-96. *II S*

ANT V 3955y
Colloquium: The Ethnographic Imagination
Social structure, symbolic, historical, and critical turns in anthropological writing. Exploration of the way cultural theory, representation, and exotic display developed in the ethnographic tradition

from World War II to the present. —A. Ghosh
4 points. M 4:10-6:00 *S*

ANT V 3958y
Crossing Borders: An Anthropology of Transnational Migration

Explores the relationships among concepts of community, culture, and capital within national and transnational arenas. The globalization of the capitalist economy has had profound effects on worldwide labor migrations. Longstanding assumptions with regard to processes of migration, notions of ethnicity, community, and personal and national identities need to be reexamined. —L. Green
Prerequisite: Majors/concentrators or permission of the instructor.
4 points. F 10:00-12:00 *I S*

ANT V 3965y
Colloquium: Twentieth-Century Cultural Theory

Do I have a body, or am I my body? A range of 20th-century cultural theory revolves around such a riddle, which this course takes up through readings on various topics: genetics, anatomy, sport, art, sex, work, war, sickness, and death. —R. Morris
4 points. Tu 4:10-6:00 *S*

ANT V 3970x
Biological Basis of Human Variation

An examination of the biological data for modern human diversity at the molecular, phenotypical, and behavioral levels, as distributed geographically. —R. Holloway
Prerequisites: ANT V 1010 and instructor's permission.
4 points. Th 4:10-6:00 *S*

ANT W 4114x
The Anthropology of Religious Beliefs and Practices

"Religion" approached as a dimension of "culture" — in terms of classic and contemporary anthropological theory and ethnographic evidence. Values, cosmologies, belief systems, rituals, and religious practitioners will be compared and contrasted, and the interplay of religion and societal change will be addressed. —M. Klass
3 points. M 9:00-10:50 plus hour TBA. *I S*

ANT W 4150x
Ethnology of Native Americans
3 points. Not offered in 1995-96. *II S*

ANT W 4187x
Life in Rural South Asia

Examination of the circumstances under which one of every six people on earth currently live. Explores varieties of South Asian communities, religions, and economic and social systems—with particular attention to the manifestations of caste and Hinduism on the village level. —M. Klass
3 points. W 2:10-4:00 *II S*

ANT W 4230x
Food and Society
3 points. Not offered in 1995-96. *I S*

ANT W 4625x
Anthropology and Film

Use of film by anthropologists as a means of documentation of culturally patterned behavior and as a research tool. Films will also be analyzed as cultural texts. —P. Rubel
3 points. W 1:10-4:00 *I S*

AAS V 3290y
Asian-American Experience

An examination of issues confronting Asian-Americans today, with a focus on developing conceptual perspectives. Topics include ethnic relations (both internal and external), ethnic identity, stereotypes (e.g., "model minority"), community, education, career, work, family, gender and sexuality, and multiculturalism. —K. Ikeda
3 points. Tu Th 4:10-5:25 *I S*

AAS V 3501y
Women in Japanese Society

Anthropological examination of women in Japanese society. Situating Japanese women among world ethnographies and applying anthropological theories. Undertakes to reevaluate myths and stereotypes associated with Japanese women and reconsider such basic concepts as equality, power, and freedom. Topics include politics, work, family and marriage, sexuality, aging, feminism, and the construction of gender ideology. —K. Ikeda
3 points. Tu Th 1:10-2:25 *I S*

AAS V 3505x
Contemporary Japanese Society

An examination of sociocultural issues in post-industrial Japan, including modernity, mass-aging, mass-education, shifting expectations of women, regionalism, the future of the family, mass media, and changing roles and national identity in an expending global context. Special attention will be paid to the dynamic processes of cultural creation, and the effect of changes in the sociocultural landscape on individual lives. —K. Ikeda
3 points. Tu Th 1:10-2:25 *I S*

ASN V 3910y
The Japanese Family
An exploration of Japanese family life through the analysis of films, literature, and ethnographies dealing with such issues as the evolution of the modern family, change and continuity patterns of interpersonal relationships, marriage and divorce, the role of women, social class, mass aging, the relation of family to other social institutions and to the state, and emerging alternative family forms. —K. Ikeda
4 points. W 2:10-4:00 *II S*

COURSES FOR MAJORS

ANT BC 3871x-3872y
Senior Seminar:
Problems in Anthropological Research
Discussion of research methods and planning and writing of a Senior Essay will accompany research on problems of interest to students, culminating in the writing of individual Senior Essays. The advisory system requires periodic consultation and discussion between the student and her adviser as well as the meeting of specific deadlines set by the department each semester. —Staff
4 points. M 4:10-6:00

ANT BC 3999x, y
Individual Projects
Research projects are planned in consultation with members of the department and work is supervised by the major's adviser. —Staff
Permission of the department required.
4 points. Hours TBA.

GRADUATE COURSES

Certain graduate courses given in the University are open to qualified majors with the consent of the department chair and the major adviser. These courses are described in the bulletin for the Graduate School of Arts and Sciences.

ARCHITECTURE

310 Barnard Hall 854-8430

Senior Lecturer: Peggy Deamer (Director)

Adjunct Assistant Professors: Modjeh Baratloo, Joeb Moore, Taeg Nishimoto, David Smiley

Other officers of the University offering courses listed below:

Adjunct Assistant Professors: Frederick Biehle, Karen Fairbanks (Columbia College Departmental Representative), Alicia Imperiale, Paul Lewis, Madeline Schwartzman, Michael Webb

Architecture majors experience and investigate the central aspects of the field. The major provides an inclusive program offering opportunities to explore historical and contemporary relationships among physical, social, and cultural forms and environmental contexts. Active studio work complements seminar discussions, lectures, and research; students are required to choose a cluster of courses in another area of particular interest, thus relating architecture to other disciplines.

Students considering an Architecture major or minor should consult with the adviser before sophomore registration to develop the most appropriate sequence of studio and lecture courses. Those interested in graduate study in architecture should consult with the adviser in their junior year concerning their programs.

REQUIREMENTS FOR THE MAJOR

The major in Architecture is required to complete 14 courses, at least five of which should be Barnard courses:

Four Studio courses, to be taken one per semester (studio courses have limited enrollment and priority is given to Architecture majors, seniors and juniors):

ARC V 3103	*Architectural Representation: Perception*
ARC V V 3101	*Architectural Representation: Abstraction*
ARC V 3201, V 3202	*Architectural Design I and II*

Five Lecture courses from the following list*

ARC BC	3117	*Perceptions of Architecture*
ARH V	----	*Introduction to Architecture*
ARH V	3080	*Pre-Columbian Art & Architecture*
ARH V	3248	*Greek Art and Architecture*
ARH V	3250	*Roman Art and Architecture*
ARC A	6730	*American Architecture before 1876*
ARC A	4341	*American Architecture 1876-1976*
ARH W	3645	*Twentieth-Century Architecture and City Planning*
ARC A	4330, 4331	*Urban History I and II*
ARC W	4321	*John Sloane and his Contemporaries*
ARC W	3833	*Architecture 1750-1890*
ARC W	3180	*Art and Architecture of Ancient Egypt*
ARC F	3642	*Monuments of New York*

Two Seminars to be taken in the junior or senior year.*

ARC V	3901x, y	*Senior Seminar*

Three cluster courses are required, chosen in consultation with the adviser from an area of study related to architecture, such as Anthropology, Art History, Economics, Environmental Science, Geography, History, Philosophy, Physics, Political Science, Psychology, Sociology, Theatre, Urban Studies, or Studio Art.

*Each semester there are other applicable courses scheduled at the University that can be taken upon approval of the adviser. For the description of these courses, consult the listings of other departments.

The Architecture program is a liberal arts major, not a professional degree program. It does not qualify students for a license in Architecture.

Students who wish to continue in graduate studies in Architecture for a professional degree are also advised to take:

ARC BC	3211	*Architectural Design III*
Physics V	1003	*General Physics*
Mathematics V	1100	*Brief Calculus*

Note: All studio, seminar, and upper-level courses require the permission of the instructor at the first meeting of the class.

REQUIREMENTS FOR THE MINOR

The minor in Architecture consists of five courses, including V 3103 or V 3101, three history/theory courses, and a fifth course to be chosen in consultation with the adviser.

COURSES OF INSTRUCTION

ARC BC 3117y
Perceptions of Architecture
Introduction to various methods by which we look at, experience, analyze, and criticize architecture and the built environment; development of fluency with architectural concepts. —D. Smiley
Designed for but not limited to sophomores; enrollment beyond 20 at the discretion of the instructor.
3 points. M W 2:40-3:55

ARC V 3901x, y
Senior Seminar
Readings, individual class presentations, and written reports.—P. Deamer and J. Moore
Open to architecture majors only.
3 points.
x: W 4:10-6:00 —J. Moore
y: W 4:10-6:00 —P. Deamer

STUDIO COURSES

ARC V 3103x, y
Architectural Representation: Perception
Introduction to design through studies in perception and visualization, using drawings from nature and architecture. Emphasis on exploratory, inventive processes for the generation, development, and representation of ideas in a variety of media. —M. Schwartzman and staff
Recommended in the sophomore year.
3 points. Sec. 1 Tu Th 9:00-10:50
Sec. 2 Tu Th 11:00-12:50

ARC V 3101x, y
Architectural Representation: Abstraction
Introduction to design through analysis of abstract architectural space and form. Emphasis on the design process and principles of representation through architectural drawing and model-making. Students work in a studio environment. —K. Fairbanks and staff
Recommended in the sophomore year.
3 points.
Sec. 1 Tu Th 9:00-10:50
Sec. 2 Tu Th 11:00-12:50
Sec. 3 Tu Th 7:00-8:50 (y only)

ARC V 3201x
Architectural Design I
Workshop introduction to architectural design: fundamental explorations of space and form through design exercises requiring drawings and models. Studio work, lectures, discussions, and written analysis. —K. Fairbanks and staff
Prerequisite: V 3103 and V 3101.
4 points. M W 9:00-11:50

ARC V 3202y
Architectural Design II
Workshop continuation of Course V 3201. Field trips and lectures organized in relationship to the studio exercises. —P. Deamer and staff
Prerequisite: V 3201.
4 points. M W 9:00-11:50

ARC BC 3211x
Architectural Design III
Further exploration of the design process through studio work. Programs of considerable functional, contextual, and conceptual complexity are undertaken. —T. Nishimoto
Eligible students are requested to consult the program adviser for Barnard College before the first meeting of class. Prerequisites: V 3202 and permission of the program adviser.
4 points. M W 9:00-11:50

ARC BC 3099x, y
Independent Study
Prerequisite: permission of program adviser for Barnard College, in the semester prior to that of independent study. —P. Deamer

ART HISTORY

301 Barnard Hall 854-2118

Professors: Natalie B. Kampen (Women's Studies)[2], Keith Moxey (Chair), Barbara Novak (Helen Goodhart Altschul Professor), Jane Rosenthal

Associate Professor: Benjamin Buchloh

Assistant Professors: Sheila McTighe, Margaret Werth

Adjunct Professor: Maryan Ainsworth

Associates: Joan Snitzer, Ann McCoy

Other officers of the University offering courses listed below:

Professors: James Beck, Richard Brilliant, Joseph Connors, David Freedberg[1], Rosalind Krauss, Robin Middleton, Miyeko Murase[2], Stephen Murray[2], Esther Pasztory, Theodore Reff[3], David Rosand[1], Allen Staley

Associate Professors: Hilary Ballon, Barry Bergdoll, Vidya Dehejia, John Russell, Janis Tomlinson[1]

Assistant Professors: Jonathan Crary[2], Thomas Dale, Alexander MacGillivray[1], David Sensabaugh

[1]Absent on leave 1995-96

[2]Absent on leave Spring term

Art History, which is devoted to the study of the visual arts, is one of the broadest of the humanistic disciplines. It is concerned not only with the nature of works of art—their form, style, and content—but also with the social, political, and cultural circumstances that shape them. The introductory-level courses aim at developing in students a lifelong understanding and appreciation of works of art. The rest of the curriculum is geared to preparing majors either for graduate study leading to careers in university teaching and museums, or for positions in the art world, in galleries, publication, criticism, the visual media, art consultation, conservation, and the like. These courses also provide opportunities for correlated learning to students in other fields. The department, fortunate to be located in New York City, one of the world's great art centers, takes full advantage of the rich resources of the city's museums and galleries in its course of study.

REQUIREMENTS FOR THE MAJOR

The Department offers both a major in the History of Art and a major in Art History with a concentration in the Visual Arts. In each case the student chooses a faculty adviser who assists her in planning a program incorporating personal interests while meeting departmental requirements.

Requirements for the major in the History of Art:

A minimum of ten Art History courses is required for the major, including

1. Art History BC 1001, 1002, *Introduction to the History of Art* is strongly suggested as an introduction to the field unless a student has sufficient previous training. It is also recommended as a prerequisite to all upper-level courses. Each semester of BC 1001, 1002, counts as an elective toward fulfillment of the ten-course requirement, but neither this nor any other broad survey can be substituted for a course in number 2 below.

2. At least five courses distributed among the following areas:

European: Ancient, Medieval, Renaissance, Baroque, and Modern

Non-European: Chinese, Japanese, Indian, African, Mesoamerican, or Native American.

The program must include at least one European course and at least one non-European course. No more than one course from each period or area may be counted toward the five-course requirement.

3. Two seminars which may be drawn from any area or period and may be used to satisfy

the European and non-European requirements outlined on the previous page.

4. ARH BC 3970 *Methods and Theories of Art History.*

5. A senior essay. With the Chair's permission, seniors may elect Art History BC 3999 *Independent Research* for the senior essay, but the course may not be used to fulfill the seminar requirements. The senior essay may be an expansion of a seminar paper.

Courses in film are accepted as part of the major; studio courses are not.

Students who plan to undertake graduate work should acquire a reading knowledge of at least two foreign languages in which the major contributions to the history of art have been made. Most graduate schools require a reading knowledge of French and German; the department strongly recommends taking German while at Barnard.

Requirements for the major in Art History with concentration in the Visual Arts: Seven Art History courses, including:

- BC 1001, 1002 *Introduction to the History of Art*
- An advanced seminar in art history
- One course in 19th- or 20th-century art
- ARS BC 3031 *Imagery and Form in the Arts.*

In addition, students must take a minimum of five studio art courses.

A senior project is required. This may take the form of a critical essay dealing with contemporary art or an exhibition of the student's work with an accompanying paper defining the artistic character of the work.

REQUIREMENTS FOR THE MINOR

The minor in Art History consists of five lecture courses, including Art History BC 1001, BC 1002 and one each in three of the following periods: Ancient, Medieval, Renaissance, Baroque, and Modern.

COURSES OF INSTRUCTION

ARH BC 1001x, 1002y
Introduction to the History of Art

An introduction to the art of the past with an emphasis on the variety of perspectives from which it may be studied. While mainly dedicated to the art of Western Europe, the course includes serious discussion of other cultures as well. There will be no attempt at comprehensive coverage. Works of art from different periods will be selected for discussion in depth. Members of Barnard's art history faculty and other invited speakers contribute lectures in their fields of specialization. Autumn term: Ancient, Medieval and Renaissance. Spring term: Baroque, Modern and Contemporary. —K. Moxey, S. McTighe, other instructors TBA.
4 points. M W 1:10-2:25 plus hour TBA. *H*

ARH V 3030x
Arts of Africa
3 points. Not offered in 1995-96. *H*

ARH V 3080x
Pre-Columbian Art and Architecture

—E. Pasztory
3 points. Th Th 2:40-3:55 *H*

ARH V 3201y
Arts of China

An introduction to the arts of China—ceramics, bronzes, painting, and sculpture—from the earliest farming cultures (ca. 5000 B.C.E.) to the end of the traditional period (ca. 1750 C.E.). —D. Sensabaugh
3 points. Tu Th 4:10-5:25 *H*

ARH V 3203x
Arts of Japan

A survey of Japanese art from the Neolithic through the Edo period, with emphasis on Buddhist art, scroll painting, decorative screens, and wood-block prints. —M. Murase
3 points. Tu Th 4:10-5:25 *H*

ARH W 4179x
Art and Archaeology in Early Anatolia
3 points. Not offered in 1995-96. H

ARH V 3248x
Greek Art and Architecture
Examination of the principal monuments and themes of Greek art in sculpture, painting, architecture, and city planning from the Mycenaeans to the Roman conquest. —Instructor TBA.
3 points. Tu Th 2:40-3:55 H

ARH V 3250y
Roman Art and Architecture
Architecture, sculpture, and painting of ancient Rome from the second century B.C. to the end of the Roman Empire in the West. —R. Brilliant
3 points. Tu Th 2:40-3:55 III H

ARH W 4455y
Byzantine Art from the Justinian to the Palaeologan Renaissance
3 points. Not offered in 1995-96. H

ARH V 4256y
Art of the Greek Dark Ages
3 points. Not offered in 1995-96. H

ARH BC 3351x
Early Christian and Early Medieval Art
The origins of Christian art before Constantine and the subsequent development of architecture, sculpture, and painting under the patronage of church and state in Western Europe from the 4th through the 11th-centuries. —J. Rosenthal
3 points. M W 2:40-3:55 III H

ARH W 4315x
The Making of Medieval Art, 650-900 A.D.
3 points. Not offered in 1995-96. H

ARH BC 3352y
Art of the Later Middle Ages
Between the 11th and 14th centuries, the political, economic, and cultural life of Europe underwent profound change. This course provides an exploration of the medieval visual arts within this dynamic framework. —T. Dale
3 points. M W 2:40-3:55 H

ARH W 4356y
Gothic Painting in France, 1200-1350
Origins and development of French Gothic painting from the Ingeborg Psalter through the works of Pucelle and his circle. —J. Rosenthal
3 points. M W 4:10-5:25 III H

ARH W 3410x
Italian Renaissance Architechture
3 points. Not offered in 1995-96. H

ARH W 3420x
Italian Sculpture during the Renaissance
3 points. Not offered in 1995-96. H

ARH W 3400x
Italian Renaissance Painting I
—J. Beck
3 points. Tu Th 4:10-5:25 H

ARH V 3437y
Italian Renaissance Painting II
—J. Beck
3 points. Tu Th 4:10-5:25 H

ARH W 3416x
Northern Renaissance Painting
3 points. Not offered in 1995-96. H

ARH V 3475y
Art and Culture of the Northern Renaissance
3 points. Not offered in 1995-96. III H

ARH W 4547x
French Painting and the Birth of Art Criticism in the Ancien Régime, 1640s-1780s
Lectures cover the crucial moments in the creation of two institutions governing 17th- and 18th-century artistic life: the *Académie Royale de Peinture*, and a public criticism of the arts independent of both artists and patrons. Artists studied include Le Brun, Philippe de Champaigne, Jouvenet, Watteau, Chardin, and Grueze. Critical texts include de Piles, Du Bos, and Diderot.
—S. McTighe
Prerequisites: BC 1001-1002 Introduction to Art History and one upper-level course.
3 points. M W 10:35-11:50 III H

ARH W 4480y
Art in the Age of the Reformation
Traces the ways in which the cultural and social functions of artistic production in Germany and the Netherlands were transformed as a consequence of the dissemination of the ideologies of humanism and the Reformation. —K. Moxey
3 points. Tu Th 10:35-11:50 III H

ARH W 4428x
Italian Baroque Architecture
3 points. Not offered in 1995-96. H

ARH V 3500x
Seventeenth-Century Art in Italy, France, and Spain
3 points. Not offered in 1995-96. H

ARH BC 3520y
Roman Baroque Art
3 points. Not offered in 1995-96. III H

ARH W 3603x
Spanish Painting: El Greco to Goya
Prerequisites: Art Humanities or upper-level course(s) in Spanish literature, Iberian studies.
3 points. Not offered in 1995-96. *H*

ARH V 3660x
American Painting
An investigation of the ways in which cultural context, including American self-definitions and the land itself, shaped an ideology of the natural world in American art, with correspondences in philosophy, science, and literature from its source in the Puritan ethic through transcendentalism and into the post-Darwinian period. —B. Novak
3 points. Tu Th 2:40-3:55 *H*

ARH W 4900x
Modern Landscape: Histories and Theories
Prerequisite: Permission of the instructor.
3 points. Not offered in 1995-96. *III H*

ARH C 3643y
The American City: A History of Urban Form and City Planning
—H. Ballon
3 points. Tu Th 4:10-5:25 *H*

ARH V 3748y
Eighteenth-Century Art
—A. Staley
3 points. M W 4:10-5:25 *H*

ARH W 3600x
19th-Century Art
Painting and sculpture in Western Europe from 1789-1900; Neo-classic, Romantic, Realist, Impressionist, and Post-Impressionist movements. —J. Crary
3 points. M W 1:10-2:25 *H*

ARH W 3686y
Seurat to Matisse: Art in France, 1880-1907
Developments in French art, culture, and society between 1880 and 1907. Artists studied include Manet, Monet, Dégas, Cézanne, Morisot, Seurat, Van Gogh, Gauguin, Rodin, Claudel, Vuillard, Matisse, and Picasso. —M. Werth
3 points. M W 10:35-11:50 *H*

ARH W 3620y
19th-Century Visual Culture
3 points. Not offered in 1995-96. *H*

ARH W 3650y
Twentieth-Century Art
The major trends and sources of 20th-century painting, sculpture, and architechture, with special emphasis on an understanding of the cultural environment and related developments. —R. Krauss
3 points. Tu Th 2:40-3:55 *H*

ARH V 3610x
Modernism and Difference
Issues such as the modern museum, the centrality of gender and sexuality, the emergence of feminist art, the boundaries between art and pornography, and the persistence of modernist primitivism, as well as the part played by individual artists—from Picasso and Pollock to Hesse and Mapplethorpe—will focus our consideration of what kinds of "difference" canonical modernism has accommodated and how modernism's limits have been tested by marginal, oppositional, and post-modernist figures. —M. Werth
3 points. M W 4:10-5:25 *H*

ARH BC 3674x
Art Since 1945
Introduction to the history of art in post-war Europe and the United States from 1945 to the present, emphasizing questions of methodology of modernist studies and the diversity of theoretical approaches. —B. Buchloh
3 points. Tu Th 2:40-3:55 *H*

ARH BC 3673y
History of Photography
Introduction to the history of European and American photography: the major movements and individual figures from the 1830s to the 1980s as well as theories and models of thinking about photography and its crucial authors. —B. Buchloh
3 points. Tu Th 2:40-3:55 *H*

ARH W 3645y
Twentieth-Century Architecture and City Planning
3 points. Not offered in 1995-96. *H*

ARH W 3833x
Architecture 1750-1890
—B. Bergdoll
3 points. M W 2:40-3:55 *H*

ARH V 3895x
Introductory Colloquium: The Literature and Methods of Art History
—J. Crary and T. Dale
4 points. W 11:00-12:50 *H*

AWS BC 3123x
Women and Art
3 points. Not offered in 1995-96. *I H*

SEMINARS

Seminars have limited enrollment. Permission of the instructor is required for admission to all Barnard and Columbia seminars. In addition, it is strongly recommended that students seeking admission to a seminar have previously had a lecture course in the area. Students must sign up for Columbia seminars at 826 Schermerhorn.

ARH C 3905x
The Tomb of Tutankhamun
—J. Russell
4 points. Tu 11:00-12:50 *H*

ARH W 3912y
Exhibiting African Art
Prerequisite: Art History V 3030
4 points. Not offered in 1995-96. *H*

ARH C 3916x
Nineveh and Its Remains
4 points. Not offered in 1995-96. *H*

ARH V 3911y
Chinese Painting of the Sung and Yuan Dynasties
—D. Sensabaugh
4 points. Th 11:00-12:50 *H*

ARH C 3910y
Art of the Han Dynasty
4 points. Not offered in 1995-96. *H*

ARH V 3912y
The Art of Landscape Painting in China
4 points. Not offered in 1995-96. *H*

ARH C 3933x
Medieval Art at the Cloisters
4 points. Not offered in 1995-96. *H*

ARH BC 3953y
The Art of Medieval Manuscript Illumination
Study of the decoration and illustration of medieval manuscripts, including examination of original works in collections in New York City.
—J. Rosenthal
4 points. Tu 5:00-7:00 *H*

ARH BC 3921y
Reading the "Reality Effect"
4 points. Not offered in 1995-96. *H*

ARH C 3956y
Pieter Bruegel
4 points. Not offered in 1995-96. *H*

ARH V 3933y
Arts in Early Medicean Florence
4 points. Not offered in 1995-96. *H*

ARH C 3941y
Garden and Landscape in Renaissance Italy
4 points. Not offered in 1995-96. *H*

ARH BC 3974y
Matisse
4 points. Not offered in 1995-96. *III H*

ARH BC 3975x
Landscape Painting in the 19th Century
Prerequisite: Permission of the instructor.
4 points. Not offered in 1995-96. *III H*

ARH BC 3965x
Bernini
A look at Bernini's designs in light of Baroque poetics, music, stagecraft, changing religious practices, and new techniques for political repression in the 17th century. Recent writing on theatricality and the role of the spectator in producing the "event" of representation will also be brought to bear on Bernini's work. —S. McTighe
4 points. M 2:10-4:00 *H*

ARH BC 3966y
Watteau
A look at Watteau's unusual choice of subject matter, his brilliant technique and colorism, his relation to the emerging practice of art criticism, and the social resonance of his works. —S. McTighe
4 points. M 10:10-12:00 *H*

ARH BC 3963y
Caravaggio and Caravaggism in 17th-Century Painting
4 points. Not offered in 1995-96. *H*

ARH BC 3964y
Poussin and Claude: Landscape in 17th-Century Rome
Preference is given to Art History majors or permission of the instructor is required.
4 points. Not offered in 1995-96. *H*

ARH W 3930x
Prints and Politics, 1500-1950
—S. Schama
4 points. Hours TBA.

ARH C 3935y
The Theory of the Picturesque in 18th-Century England
—R. Middleton
4 points. Th 2:10-4:00 *H*

ARH C 3948x
19th-Century Criticism
—J. Crary
4 points. M 2:10-4:00 *H*

ARH V 3951x
The Image of the Buddha from New York Collections
—V. Dehejia
4 points. Not offered in 1995-96. *H*

ARH BC 3982y
The Literature of Art
A consideration of artists' letters and journals as revelatory of key ideas in the art of representation and an inquiry into various concepts of the art historian's role. Readings include Delacroix, Van Gogh, Reynolds, Leonardo, Huizinga, Panofsky, Wolfflin, Gombrich, Kubler, Barthes. —B. Novak
Enrollment limited to 16 students. Permission of the instructor required.
4 points. W 2:10-4:00 *H*

ARH BC 3986y
Art Criticism
Workshop in writing criticism. Short weekly assignments on such matters as language, experience, narrative, and the object; close examination of process. Students write art criticism based on their gallery visits and refer to current and previous criticism. —B. O'Doherty
4 points. M 10:10-12:00 *H*

ARH BC 3985x
Introduction to Connoisseurship
Factors involved in judging works of art, with emphasis on paintings: materials, technique, condition, attribution; identification of imitations and fakes; questions of relative quality. —M. Ainsworth
Enrollment limited to 12 senior majors. Permission of the instructor required.
4 points. F 10:00-12:00 *H*

ARH C 3990x
The Literature of Modern Architecture
—B. Bergdoll
4 points. Tu 11:00-12:50 *H*

ARH C 3948x
Cézanne
—T. Reff
4 points. M 4:10-6:00 *H*

ARH BC 3970x
Methods and Theories of Art History
An introduction to critical writings that have shaped histories of art, including texts on iconography and iconology, the psychology of perception, psychoanalysis, social history, feminism and gender studies, structuralism, semiotics, and post-structuralism. —M. Werth
4 points. Th 4:10-6:00 *H*

ARH BC 3943x
Painting in Paris c. 1900
4 points. Not offered in 1995-96. *H*

ARH BC 3962y
Romanticism
4 points. Not offered in 1995-96. *H*

ARH V 3976y
Victorian Painting, Printmaking, and Photography
4 points. Not offered in 1995-96. *H*

ARH V 3980y
Frank Lloyd Wright
—H. Ballon
4 points. Th 10:10-12:00

ARH W 3973y
Histories and Theories of Photography 1839-1939
—B. Buchloh
Prerequisite: Permission of instructor.
4 points. Not offered in 1995-96.

ARH BC 3999x, y
Independent Research
Independent research, primarily for the senior essay, under a chosen faculty adviser and with the chair's permission. —Staff
4 points. Hours TBA. *H*

ARS BC 3031y
Imagery and Form in the Arts
The operation of imagery and form in dance, music, theatre, visual arts, and writing; students are expected to do original work in one of these arts. Concepts in modernist theory will be explored. —J. Snitzer
3 points. M 2:40-4:30 *III*

M 6:00-7:00. ***Artsforum***
Artsforum is an informal weekly meeting with professionals in the arts.

STUDIO COURSES IN ART

Studio courses, 2003x, 2004y, 2005x, 2006y, 2007x, 2008y are given at Barnard. Enrollment is limited and students must sign up in advance. Other studio courses are given at the School of the Arts, in Dodge Hall, and students may register for these only with written permission of the department chair. Classes are limited in size. Students who wish to enter the Columbia courses are required to apply for space in 305 Dodge Hall during the preregistration period prior to each term. Model fees range from $20 to $45. For students other than those majoring in Art History

with Visual Arts concentration, a maximum of four courses of studio work may be credited toward graduation; each of the second two must be matched with an art history course in order to be credited.

ARH BC 2003x, 2004y
Drawing in the Museum
An intensive drawing workshop geared to all levels from beginner to advanced. Includes live drawing, color theory, and work in pastel. Drawing in the Museum will also examine the role played by the display of art and artifacts from all periods of history in the work of the Cubists and Surrealists as well as in that of such contemporary artists such as Robert Smithson, Joseph Beuys, Marcel Broodthaers, Nancy Spero, Leon Golub, and others. —A. McCoy
Class features several Native American and African guest lecturers.
2 points. Th 2:10-6:00

ARH BC 2005x, 2006y, 2007x, 2008y
Painting
Basic understanding of the visual representation of space, color, and form are developed by setting specific tasks to be executed in oil painting. Class work will include drawing and painting from the model as well as still-life arrangements. Emphasis is on the painting methods and techniques used historically in Realism, Expressionism, and Abstraction. Students are encouraged to develop oral and written skills through weekly discussions and assignments that accompany the examination of visual art. No prior experience is necessary. —J. Snitzer
2 points. W 2:10-6:00

ARH BC 2010x
Advanced Studio Painting
—J. Snitzer
3 points. M 2:10-6:00

STUDY ABROAD: REID HALL, PARIS

The following courses are offered at Reid Hall in Paris. For additional information, see the Reid Hall Programs Bulletin available in 412 Lewisohn Hall.

Art History H 3320y
Medieval Art and Architecture
Lectures and discussions on French art and architecture during the Middle Ages. Students are expected to visit and report on Saint-Denis, Cluny, Notre Dame, Chartres, Sainte-Chapelle, and other sites. Overnight excursions to LeMans, Angeo, Chartres. —Y. Carré, A. Bratu
3 points. *H*

Art History H 3430x, y
Renaissance and 17th-Century Art and Architecture
Lectures and discussions on French architecture, painting, and sculpture from their roots in the Italian Renaissance through the 17th century. Students are expected to visit and report on the Musée Condé, Fontainebleau, Château d'Ecouen, Vaux-le-Vicomte, Versailles, the Louvre, and other sites. Overnight excursion to Belgium, visits to Ghent, Bruges. —Y. Carré, A. Bratu
3 points. *H*

Art History H 3604x, y
Seminar on Contemporary French Art
Emphasis on one particular work, artist, or school. The topics for 1994-95 were *European Sources on the New York School of Painters* (Autumn) and *The Revolution of Modern Art: Cubism, Fauvism, Expressionism, Abstract Art* (Spring). —J. Ferrier
4 points. *H*

Art History H 3715x
Art in Paris 1900-1940 *(in English)*
For students in the Art History Program. An examination of the movements centered in Paris, or which had significant proponents and exhibitions in Paris: Fauvism, Cubism, Futurism, Purism, Dada, and Surrealism. The work of Mondrian and of certain members of the Russian avant-garde will also be considered. —C. Poggi
3 points. *III H*

Art History H 3970x
Seminar: Pablo Picasso *(in English)*
For students in the Art History Program. An exploration of the work of Picasso throughout his career —the Blue and Rose periods, the so-called "African" period, the language of Cubism, the "return" to classicism during and after World War I, as well as the work associated with Dada and Surrealism. —C. Poggi
4 points. Limited to 15 students. *III H*

ASIAN AND MIDDLE EASTERN CULTURES

321 Milbank Hall 854-2125, 5416

Associate Professors: Irene Bloom (Wm. Theodore & Fanny Brett de Bary & Class of '41 Collegiate Associate Professor in Asian Humanities, and Chair), Afsaneh Najmabadi (Women's Studies)

Assistant Professors: Keiko Ikeda, Rachel Fell McDermott

Other officers of the University offering courses listed below:

John Mitchell Mason Professor Emeritus and Special Service Professor: William Theodore de Bary

Professors: Paul Anderer, Peter J. Awn (Religion), Richard Bulliet (History), Kathleen R. F. Burrill, Pierre Cachia (Senior Scholars Program), Chou Wen-chung (Music), Myron Cohen (Anthropology), Dieter Christensen (Music), Ainslie T. Embree (Senior Scholars Program), Carol N. Gluck (History), John S. Hawley (Religion), Robert Hymes, Donald Keene, Gari K. Ledyard, Maan Madina, John Meskill (Senior Scholars Program), Dan Miron, Miyeko Murase (Art History and Archaeology), Theodore Riccardi, Barbara Ruch, George Saliba, Conrad Schirokauer (Senior Scholars Program), Henry Smith, Robert A. F. Thurman (Religion), Arthur Tiedemann, Philip B. Yampolsky, Ehsan Yarshater, Madeleine Zelin

Adjunct Professor: Morris Rossabi

Associate Professors: Frances Pritchett, Haruo Shirane, Mark Van De Mieroop, David Wang

Assistant Professors: Ryuichi Abe (Religion), Magda Al-Nowaihi, Hamid Dabashi, Daniel Ferguson (Music), Nili Gold, Ayesha Jalal (History), Matthew Kapstein (Religion), Richard Lufrano (History), Gurinder Singh Mann (Religion), Paul Rouzer, David Sensabaugh (Art History and Archaeology), Michael Tsin, Gauri Viswanathan (English and Comparative Literature), Angela Zito (Religion)

Adjunct Assistant Professor: Francesca Rebollo-Sborgi

Senior Lecturer: Jeanette Wakin

Lecturers: David Lelyveld, Leo Shin (Society of Fellows), Marsha Wagner, Anne Waters (Society of Fellows)

The primary aim of Asian and Middle Eastern Cultures is to introduce major Asian civilizations and their works and values as a means of expanding knowledge of the varieties and unities of human experience. The General Courses below are designed for any student, whatever her major interests, who wishes to include knowledge of Asian life in her education.

The satisfactory completion of one of the following courses offered in the departments of East Asian Languages and Cultures and Middle East Languages and Cultures satisfies the college requirements in the respective languages: Akkadian G 4204, *Intermediate Akkadian*; Arabic W 1122, *Intermediate Arabic*; Armenian W 1124, *Intermediate Armenian*; Central Asian W 1110, *Intermediate Tajik*; Central Asian W 1122, *Intermediate Uzbek*; Chinese C 1202 or F 1202, *Intermediate Chinese* (second stage); Hebrew W 1122, *Intermediate Modern Hebrew*; Hindi-Urdu W 1122, *Intermediate Hindi-Urdu*; Japanese C 1202 or F 1202, *Intermediate Japanese* (second stage); Iranian W 1122, *Intermediate Modern Persian*; Korean W 1202, *Intermediate Korean*; Nepali W 1122, *Intermediate Nepali*; Sanskrit G 6102, *Intermediate Sanskrit*; or Turkish W 1122, *Intermediate Turkish*.

Literature courses in the departments of East Asian Languages and Cultures and Middle East Languages and Cultures in which readings are in the original languages may be used to fulfill the Barnard distribution requirements only with the permission of the Chair of Asian and Middle Eastern Cultures.

Students who wish to enter Chinese, Japanese, or Korean language courses above the introductory level *must* pass a language placement test before registering. Placement exams are given during a week *before* classes begin—contact the Department of East Asian Languages and Cultures (407 Kent) for exact dates. For placement above the introductory level in Arabic, Hebrew, Hindi, Persian, Sanskrit, Turkish, or Urdu, contact the Department of Middle East Languages and Cultures (602 Kent). All students wishing to enter the Hebrew language program or wishing exemption from the Hebrew language requirement must take a

placement test. The test is administered *Monday-Friday, 10:00-3:00 during August* in 602 Kent Hall.

REQUIREMENTS FOR THE MAJOR

A student who plans to major in Asian and Middle Eastern Cultures is advised to consult a member of the department in the spring term of her first year.

To major in Asian and Middle Eastern Cultures, a student will choose to follow one of two tracks, East Asian or Middle East.

The East Asian Track

The requirements for the major are as follows:

1) Language Requirement:
Three years of Chinese, Japanese, or Korean (completion of the 4005-4006 level), or the proficiency equivalent (to be demonstrated by a placement examination).

2) Introductory Courses:

Asian Humanities	V 3400	*Colloquium on Major Texts*

and

Two of the following survey courses:

Asian Civilizations-Middle East	V 3001	*Introduction to Major Topics in Asian Civilizations: The Middle East and India*
Asian Civilizations-East Asia	V 3002	*Introduction to Major Topics in Asian Civilizations: East Asia*
Asian Civilizations	V 3559	*Introduction to the Civilization of China*
Asian Civilizations	V 3361	*Introduction to the Civilization of Japan*
Asian Civilizations	V 3363	*Introduction to the Civilization of Korea*

3) Disciplinary Courses: three courses. These are to be selected from a single academic discipline which each student must choose upon entering the major from the following: history, literature, philosophy, religion, art history, anthropology, political science, sociology, or economics. Normally, one of these courses will be a basic introductory or methodology course, and the other two will be in East Asia-related courses in the discipline. Courses in closely related disciplines may be substituted with the approval of the adviser. Those majors specializing in history should take *Histriography of East Asia* (East Asian W 4103), and those specializing in literature should take *Critical Approaches to East Asian Literature* (East Asian W 4101); these two courses are offered in the spring semester and should normally be taken in the junior year.

4) Elective Courses: Two courses of East Asia-related courses to be chosen in consultation with the adviser.

5) Senior Paper: Each student is expected to prepare a research paper or a translation with commentary in an East Asian language. The paper should be in the chosen disciplinary field and will be written in consultation with an appropriate faculty adviser. The paper is prepared in two stages, first by enrolling in the spring of the junior year in *Research in East Asian Studies* V 3999y, and then in the senior year in *Senior Seminar: China* (East Asian W 3901x-3902y); or Senior Seminar: Japan or Korea (East Asian W 3903x-3904y); or, with the adviser's approval, Asian Studies BC 3999, *Independent Study*.

Note that in all East Asian language courses, the minimum grade required to advance from one level to the next is B-.

The Middle East or South Asian Track

A minimum of 12 courses is required, including:

Asian Humanities	V 3399	*Colloquium on Major Texts*

Two of the following courses:

Asian Civilizations-Middle East	V 3001x	*Introduction to Major Topics in Asian Civilizations: The Middle East and India*
Asian Civilizations-Middle East	V 3003	*Introduction to Islamic Civilization*
Asian Civilizations-Middle East	V 3008y	*Contemporary Islamic Civilization*
Asian Civilizations-Middle East	V 3357x	*Introduction to the Civilization of India*
Asian Civilizations-Middle East	W 4210	*Indian Civilization*

Four to six courses of an appropriate language (Akkadian, Arabic, Armenian, Hebrew, Hindi-Urdu, Persian, Sanskrit, Turkish, or Uzbek), selected in consultation with an adviser. A minimum of 6 courses chosen as a concentration. The concentration may be in the languages and cultures of ancient Semitic, Arabic, Armenian, Central Asian, Hebrew, Indic, Iranian, or Turkish. The courses required in each of the concentrations and other details will be explained by the department chair. They will include one advanced course or independent study leading to a senior thesis, to be written under the supervision of an appropriate faculty member, chosen in consultation with the adviser.

The courses listed under Middle East below represent a selection among those required in one or another of the concentrations. Students should consult the Middle East department office in 609 Kent Hall for a complete list of course offerings. Also see the note on Graduate Courses at the end of this section.

No minor is offered in Asian and Middle Eastern Cultures.

COURSES OF INSTRUCTION

COURSES IN ASIAN CIVILIZATIONS

Asian Civilizations-Middle East AME V 3001x
Introduction to Major Topics in Asian Civilization: The Middle East and India

Interdisciplinary and topical approach to major issues and phases of Asian civilizations and their role in the contemporary world.
—M. Al-Nowaihi and G. Visnawathan
4 points. Tu Th 2:40-3:55
plus an additional hour TBA. *II S*

Asian Civilizations-East Asian AEA V 3002x or y
Introduction to Major Topics in Asian Civilization: East Asia

An interdisciplinary and topical approach to major issues and phases of East Asian civilizations and their role in the contemporary world. —x: W.T. de Bary, S. Linton, A. Tiedemann, and staff; y:W. T. de Bary, S. Linton, A. Tiedemann, and staff
4 points. Tu Th 10:35-11:50
plus an additional hour TBA. *II S*

Asian Civilizations-Middle East AME V 3003x
Introduction to Islamic Civilization

Islamic civilization and its characteristic political, social, and religious institutions and intellectual traditions from its pre-Islamic Arabian setting to the present. —G. Saliba
3 points. M W 11:00-12:15
plus an additional hour TBA. *II S*

Asian Civilizations-Middle East AME V 3008y
Contemporary Islamic Civilization

A survey of the contemporary intellectual currents in Islamic societies, with a special emphasis on the societies of the Middle East and on the cultural issues not covered in the course in classical Islamic civilization through focus on texts of the contemporary period. —G. Saliba
3 points. M W F 11:00-12:15 *II S*

Asian Civilizations-Middle East AME V 3357x
Introduction to the Civilization of India

An introduction to Indian civilization with attention to both its unity and its diversity across the Indian subcontinent. Consideration of its origins, formative development, fundamental social institutions, religious thought and practice (Vedic, Buddhist, Jain, Hindu, Muslim, and Sikh), literary and artistic achievements, and modern challenges.
—R.F. McDermott
3 points. M W 11:00-12:15 *II S*

Asian Civilizations-Middle East AEA W 4210x
Indian Civilization

3 points. Not offered in 1995-96. *II S*

Asian Civilizations-East Asian AME V 3359x, y
Introduction to East Asian Civilizations: China

Evolution of Chinese civilization from ancient times to the 20th century, characteristic institu-

tions and traditions.
3 points. x: M W 2:40-3:55 —I. Bloom
y: Tu Th 2:40-3:55 —R. Hymes
plus an additional hour TBA. *II S*

Asian Civilizations-East Asian AEA V 3361x, y
Introduction to East Asian Civilizations: Japan
Development of Japanese society and culture; national self-image and values as revealed in thought, institutions, literature, and the national arts.
3 points. x: M W 2:40-3:55 —TBA
y: M W 11:00-12:15 —TBA
plus an additional hour TBA. *II S*

Asian Civilizations-East Asian AEA V 3363y
Introduction to Asian Civilizations: Korea
The evolution of Korean society and culture, with special attention to Korean values as reflected in thought, literature, and the arts. —G. Ledyard
3 points. Tu Th 2:40-3:55 *II S*

Asian Civilizations ASC W 4320y
Human Rights and Social Justice in Comparative Perspective
The seminar considers issues of human rights through cross-national and cross-cultural studies of modern South Asia (India, Pakistan, Sri Lanka) and China. —A. Embree, M. Wagner, and A. Waters
4 points. M 4:10-6:00 *II S*

Asian Studies ASN V 3379y
Readings in Asian Studies
3 points. Not offered in 1995-96.

Asian Studies-Religion ASR V3974y
Hindu Goddesses
Study of a variety of Hindu goddesses, focusing on representative figures from all parts of India and on their iconography, associated powers, and regional rituals. Materials are drawn from textual, historical, and field studies, and discussion includes several of the methodological controversies involving interpretation of goddess worship in India. —R. McDermott
Prerequisite: One course in Indian culture or religion or permission of instructor.
4 points. W 4:10-6:00 *II H*

Asian Studies-Religion ASR W 3772x
Perspectives on Evil and Suffering in World Religions
—R. McDermott
3 points. Not offered in 1995-96. *I H*

Asian Studies ASN W 4001y
History, Literature, and Culture of Bengal
An introduction to the history, literature, and culture of Bengal prior to 1947. Attention is given to important figures, ideological trends, and social structures; Bengali texts in translation; and recent studies on Bengal. Lectures are supplemented by slides and films. Introduction to Indian civilization, or the equivalent, is recommended as background. —R. McDermott
3 points. Tu Th 9:00-10:15 *II H*

Asian Studies ASN V3582y
Chinese Political Thought
3 points. Not offered in 1995-96. *II H*

COURSES IN ASIAN HUMANITIES

Asian Humanities AHU V 3399x,y V 3400x, y
Colloquium on Major Texts
Readings in translation and discussion of texts of Middle Eastern, Indian, Chinese, and Japanese origin, including (V 3399): the *Qur'an*, Islamic philosophy, Sufi poetry, the *Upanishads*, Buddhist sutras, the *Bhagavad Gita*, Indian epics and drama, Gandhi's autobiography; (V 3400): the *Analects* of Confucius, Mencius, Lao Tzu, Chuang Tzu, the *Lotus Sutra*, *Dream of the Red Chamber*, *Tale of Genji*, Zen literature, Noh plays, *bunraku* puppet plays, and Chinese and Japanese poetry. (Asian Humanities V 3399-3400 form a sequence, but either may be taken separately. V 3399 may also be taken as part of a sequence with Asian Humanities V 4310; V 3400 may also be taken as part of a sequence with Asian Humanities V 3830.)
4 points II H
3399x: Sec. 1 M 4:10-6:00 —W.T. de Bary
Sec. 2 W 4:10-6:00 —R. McDermott
3400x: Sec. 1 Tu 4:10-6:00 —P. Anderer
Sec. 2 Th 9:00-10:50 —L. Shin
y: Sec. 1 M 4:10-6:00 —W.T. de Bary
Sec. 2 Tu 4:10-6:00 —I. Bloom
Sec. 3 W 4:10-6:00 —P. Rouzer
Sec. 4 Th 9:00-10:50 —L. Shin

Asian Humanities AHU W 4027x
Colloquium on Major Works of Chinese Philosophy, Religion, and Literature
Extends the work begun in Asian Humanities V 3400 by focusing on reading and discussion of major works of Chinese philosophy, religion, and literature. —W.T. de Bary; I. Bloom
Prerequisite: AHU V 3400, ASC V 3002, or ASC V 3359, or the equivalent.
4 points. W 11:00-12:50 *II H*

Asian Humanities AHU W 4028y
Colloquium on Major Works of Chinese Philosophy, Religion, and Literature
Reading and discussion of major works of Chinese philosophy, religion, and literature,

including important texts of the Buddhist and Neo-Confucian traditions. Forms a sequence with Asian Humanities W 4027, but either semester may be taken separately if the student has adequate preparation. —W.T. de Bary; I. Bloom
Prerequisite: AHU V 3400, ASC V 3002, or ASC V 3359, or the equivalent.
4 points. W 11:00-12:50 *II H*

Asian Humanities AHU V 3830x
Colloquium on Modern East Asian Texts
4 points. Not offered in 1995-96. *II H*

Asian Humanities AHU W 4310x
Colloquium on Modern South Asian Texts
Permission of the instructor required.
3 points. Not offered in 1995-96. *II H*

Asian Humanities-Music AHM V 3320y
Introduction to the Music of East Asia and Southeast Asia
A topical approach to concepts and practices of music in relation to other arts in the development of Asian civilizations. —D. Ferguson
3 points. Tu Th 6:10-8:00
One hour is a listening hour. *II H*

Asian Humanities-Music AHM V 3321x
Introduction to the Music of India and West Asia
A topical approach to concepts and practices of music in relation to other arts in the development of Asian civilizations. —F. Rebollo-Sborgi
3 points. M W 6:10-8:00 *II H*
One hour is a listening hour.

Asian Humanities AHU V 3340x, y
Masterpieces of Art in China, Japan, and Korea
Selected masterpieces of painting, sculpture, and architecture from the Han Empire in China to modern times in Japan, in relation to contemporary history, philosophy, religion, and literature.
3 points.
x: M W 6:10-7:25—Instructor TBA
y: Sec. 1 M W 1:10-2:25—D. Delbanco
Sec. 2 Time and instructor TBA *II H*

Asian Humanities AHU V 3342x, y
Masterpieces of Islamic and Indian Art
Analysis and discussion of the significance of selected works of art and architecture of Islam and Buddhist and Hindu India.
3 points. x: Tu Th 6:10-7:25 —Instructor TBA
y: Time TBA.—Instructor TBA *II H*

COURSES IN THE MAJOR

East Asian EAS W 3901x-3902y
Senior Seminar: China
Senior paper seminar, required of all majors specializing in China. —Staff
Senior majors only.
2 points (W 3901x); 1 point (W 3902y).

East Asian EAS W 3903x-3904y
Senior Seminar: Japan or Korea
Senior paper seminar, required of all majors specializing in Japan or Korea. —Staff
Senior majors only.
2 points (W 3903x); 1 point (W 3904y).

East Asian EAS V 3999y
Research in East Asian Studies
Required for all majors in the East Asian track of Asian and Middle Eastern Cultures. Introduces students to the disciplinary methods and materials of East Asian studies, particularly to prepare them for the senior seminar. —Staff
1 point. Hour TBA.

Asian Studies ASH BC 3999x, y
Independent Study
Specialized reading and research projects planned in consultation with members of the Asian and Middle Eastern Cultures teaching staff. —Staff
Open to majors who have fulfilled basic major requirements on written permission of the staff member who will supervise the project.
4 points. Hours TBA.

EAST ASIAN

Anthropology-Asian Studies AAS V 3500x
Contemporary Japanese Society
An examination of socio-cultural issues in post-industrial Japan, including modernity, mass-aging, mass-education, shifting expectations of women, regionalism, the future of the family, mass media, and changing roles and national identity in an expanding global context. Special attention will be paid to the dynamic processes of cultural creation, and the effect of changes in the socio-cultural landscape on individual lives. —K. Ikeda
3 points. Tu Th 1:10-2:25 *II S*

Anthropology-Asian Studies AAS V 3501y
Women in Japanese Society
Anthropological examination of women in Japanese society. Situating Japanese women among world ethnographies and applying anthropological theories, the course undertakes to reevaluate myths and stereotypes associated with Japanese women and reconsider such basic concepts as equality, power, and freedom. Topics

include politics, work, family and marriage, sexuality, aging, feminism, and the construction of gender ideology. —K. Ikeda
3 points. Tu Th 1:10-2:25 *II S*

Asian Studies ASN V 3910y
The Japanese Family
An exploration of Japanese family life through the analysis of films, literature, and ethnographies dealing with such issues as the evolution of the modern family, change and continuing patterns of interpersonal relationships, marriage and divorce, the role of women, social class, mass-aging, the relation of family to other social institutions and to the state, and emerging alternative family forms. —K. Ikeda
4 points. W 2:10-4:00 *II S*

Anthropology-Asian Studies AAS V 3290y
Asian-American Experience
An examination of issues confronting Asian-Americans today, with a focus on developing conceptual perspectives. Topics include ethnic stereotypes (e.g., "model minority"), community, education, career, work, family, gender and sexuality, and multiculturalism. —K. Ikeda
3 points. Tu Th 4:10-5:25 *I S*

Art History ARH V 3201x
Arts of China
A survey of major arts of ceramics, bronzes, jades, painting, and calligraphy. Museum laboratory sessions. —D. Sensabaugh
3 points. Tu Th 4:10-5:25 *II H*

East Asian EAS V 3315y
Literature and Film in Modern China
An intensive examination of modern Chinese fiction and films in the context of Chinese social, political, and cultural dynamics from the May Fourth Movement (1919) to the present. —D. Wang
3 points. Tu Th 4:10-5:25 *II H*

East Asian EAS V 3615x
Japanese Literature and Film
3 points. Not offered in 1995-96. *II H*

East Asian EAS V 3623y
The World of the Shining Prince
3 points. Not offered in 1995-96. *II H*

East Asian EAS W 3334x
Introduction to Modern Japanese Literature
Analysis and discussion of representative works of Japanese literature from the mid-nineteenth century to contemporary literature. —P. Anderer
3 points. Tu Th 10:40-11:55 *II H*

East Asian EAS V 3920x
The Literary World of the Confucian Gentleman
An examination of significant works of Chinese literature in English translation from 1050-1830, with particular attention to their historical contexts. Emphasis will be placed on the traditional cultural arts of the literatus (poetry, painting) and on the more popular literary forms (fiction, drama) that the literatus coopted for his own purposes. —P. Rouzer
Limited to 20 students.
3 points. W 2:10-4:00 *II H*

East Asian EAS V 3210x
Korean Lives
An examination of key events, institutions, and personalities in Korean history from the 18th to the 20th centuries, as seen through Korean biographical literature in translation. The emphasis is on individual responses to the challenges and problems Korea has faced in its path from Confucian kingdom to modern industrial state. —G. Ledyard
3 points. Tu Th 2:40-3:55 *II H*

East Asian EAS V 3565y
The Erotic Tradition in Classical Chinese Literature
3 points. Not offered in 1995-96. *II H*

Chinese CHI W 3550x
Modern Chinese Literature and Its Classical Tradition
3 points. Not offered in 1995-96. *II H*

East Asian EAS V 3635x
The Female Voice in Japanese Literature, Religion, and Culture
3 points. Not offered in 1995-96. *H*

History-Japanese HIJ W 3600x
World War II in American and Japanese History
3 points. Not offered in 1995-96. *H*

East Asian EAS V 3650x
The Family in Chinese History
The history of the Chinese family, its changing forms and cultural exressions: marriage and divorce; parent and child; clan and lineage; ancestor worship; the role of women; the relation of family and state; Western parallels and contrasts. —R. Hymes
3 points. Tu Th 2:40-3:55 *II H*

History HIS BC 3443y
Images of China and America
4 points. Not offered in 1995-96. *II S*

History HIS BC 1021x
Late Imperial China, 1550-1900
—R. Lufrano
3 points. M W 2:40-3:55

History HIS BC 1022y
China in the Twentieth Century
—R. Lufrano
3 points. M W 2:40-3:55

History HIS BC 3430x
The Cultural Revolution in China
—R. Lufrano
Limited enrollment. Preregistration required.
4 points. Tu 4:10-6:00

East Asian EAS V 3580y
Dominance, Resistance, and Political Culture in Modern China
3 points. Not offered in 1995-96. *II S*

East Asian EAS W 4101y
Critical Approaches to East Asian Literature
Principles of literary theory developed in the West, contrasted with literary criticism of China and Japan. Emphasis on the application of these critical methods to selected works of Chinese and Japanese poetry and prose. —H. Shirane
3 points. Th 2:10-5:00 *II H*

East Asian EAS W 4103y
Historiography of East Asia
Major issues in the practice of history illustrated by critical reading of important historical work on East Asia. —H. Smith
3 points. Th 2:10-4:00 *II S*

History-Korean HIK W 4031x
The History of Korea to 1636
An introduction to the development of Korean civilization from the Neolithic Age to 1636.
—G. Ledyard
3 points. Tu Th 1:10-2:25

History-Korean HIK W 4033y
The History of Modern Korea
3 points. Tu Th 1:10-2:25 *II S*

Religion REL V 2640x
Chinese Religious Traditions
—A. Zito
3 points. M W 11:00-12:15 *II H*

Religion REL V 3630y
Taoism
—A. Zito
4 points. M W 11:00-12:15 *II H*

Religion REL V 2608y
Buddhism: East Asia
—R. Abe
3 points. Tu Th 11:00-12:15 *II H*

Religion REL V 3804y, Sec. 52
Body, Gender, and Belief in China
—A. Zito
4 points. Tu 4:10-6:00 *II H*

Religion REL V 3803x, Sec. 14
Krishna
—J. Hawley
4 points. Th 11:00-12:50 *II H*

Religion REL V 3820y
Religion and Society in Modern India
—J. Hawley
4 points. Th 11:00-12:15 *II H*

MIDDLE EAST AND SOUTH ASIA

Hebrew W 3410x
Introduction to Modern Hebrew Culture
—D. Miron
3 points. Hours TBA. *II H*

Islamic-Religion ISR V 2630y
Islam
3 points. Not offered in 1995-96. *II H*

Religion REL V 2600y
Hinduism
—J. Hawley
3 points. Tu Th 2:40-3:55

COMPARATIVE COURSES

Middle East-Religion MDR W 3030y
Poetics of the Sacred: A Cross-cultural Investigation into the Nature of Mysticism and Poetic Language
4 points. Not offered in 1995-96.

Political Science POS BC 3414y
Women in Third-World Politics
—L. Calman
4 points. Th 2:10-4:00 *I S*

Religion REL V 1102y
Introduction to the Study of Eastern Religions
—A. Zito
3 points. M W 9:10-10:25 *H*

Also note offerings under departments of Anthropology, Art History, History, Political Science, and Religion.

ASIAN LANGUAGE COURSES

Language and literature courses are offered through the departments of East Asian Languages and Cultures and Middle East Languages and Cultures. Consult the listings of these departments in the Columbia College and Graduate School of Arts and Sciences bulletins for all the languages offered and detailed descriptions of courses.

GRADUATE COURSES

Certain graduate courses given in the University may be taken by majors, with the consent of the major adviser, to supplement department offerings. Consult the Bulletin of the Graduate School of Arts and Sciences for listings.

BIOLOGICAL SCIENCES

1203 Altschul Hall 854-2437
General Biology Course Office: 911 Altschul Hall 854-2153

Professors: Philip V. Ammirato[1], Elizabeth S. Boylan (Provost), Paul E. Hertz (Chair)

Associate Professors: Julia Chase-Brand[1], James P. Mohler

Assistant Professors: Janet M. Larkin, Ruth E. McChesney, Brian R. Morton, Bruce A. O'Gara, Jeanne S. Poindexter[2], Helen J. Young

Visiting Assistant Professor: Cynthia Handler

General Biology Laboratory Staff:

Director: Alice M. Walrath

Laboratory Associates: John Cozza, Margery Doscher, Wanda Knauss, Jennifer Scott, Harriet Waks

Other officers of the University offering courses listed below:

Professors: Walter J. Bock, Alexander A. Tzagoloff, Geoffrey Zubay

Assistant Professor: Teri Melese, T. Hazelrigg

[1]Absent on leave 1995-96
[2]Absent on leave Spring term

Biology is a field which explores the structure, function, interactions, and evolution of living organisms. Some of the most exciting issues of our era, such as those relating to biotechnology, genetic engineering, environmental problems, and health, require a strong background in biology. At Barnard, courses cover molecular biology; the fine structure, development, and physiology of cells, tissues, and organs; the embryology, behavior, and structure of organisms; and the ecology and evolution of populations and communities.

Many students specialize in Biology in preparation for a career in medicine, dentistry, public health, or nutrition, while others anticipate graduate work in one of the many subfields of biology leading to a teaching and/or research career. Still others plan futures as scientific writers, illustrators, or photographers, or as researchers in industry, government or environmental law.

Equipment available at Barnard includes an RCA 4B transmission electron microscope and an ISI SX-40 scanning electron microscope with accessory equipment, photomicrographic and darkroom instruments, microcomputers, a scintillation counter, an ultracentrifuge, an automated oxygen analyzer, a PCR thermorecycler, a chemostat, and a computer- based neurophysiology data acquisition system. The facilities include an autoradiography facility, constant temperature rooms, darkrooms, an animal care facility, a workshop, and a greenhouse. A Biology Club, originated and governed by students and sponsored by the department, presents seminars and film programs of interest.

Students are encouraged to do summer work in biological laboratories or field stations. Financial assistance for such work may be awarded to qualified students through the Edna Henry Bennett Memorial Scholarship Fund, the Herbert Maule Richards Fund, the Maura Shannon Barrett '83 Internship Fund, or the Donald and Nancy Ritchie Fund. The department maintains a file of summer courses and research stations, and information on available funds can be obtained in the department office. Support for participation or assistance in the research of the Barnard faculty is available from research grants and program grants. Advanced students may also work as Teaching Assistants in introductory courses.

The Barnard Biology Department offers several options at the introductory level; students should select courses on the basis of their prior preparation and background in Biology. For students with little prior experience, BC 1001x provides an appropriate introduction to important concepts in the field. Biology BC 1002y expands upon that introduction with detailed discussions of three important topics. Both BC 1001 and BC 1002 include a labo-

ratory component and together fulfill Barnard's laboratory science requirement (though neither course receives credit for the Biology major). Alternatively, a student who is interested in a broader treatment of the field in preparation for advanced study in Biology may enter the 2000-level sequence (BC 2001y) immediately after completing BC 1001x.

However, students who enter Barnard with a strong background in Biology should enroll directly in the 2000-level sequence. The four 2000-level courses (two lecture courses and two laboratory course) comprise an introduction that is suitable for potential Biology majors, majors in the other sciences, and students interested in the health professions. The 2000-level introductory courses are prerequisites for upper-level courses in the department. Either BC 2001 or BC 2002 may be taken first.

Students who have passed the Advanced Placement examination with a grade of 4 or 5 and evidence of satisfactory laboratory experience are exempt from BC 1001 and receive 3 points of AP credit. A laboratory notebook may be submitted to the department for a possible 1-1/2 points of additional credit. Students who receive AP credit with a grade of 4 or 5 may complete the science requirement with BC 1002. If a student anticipates further study of Biology or other natural sciences, she should instead enroll in the 2000-level sequence; completion of either BC 2003 or BC 2004 and either BC 2001 or BC 2002 will fulfill the science requirement for a student who receives AP credit.

REQUIREMENTS FOR THE MAJOR

The curriculum for Biology majors is designed to satisfy the needs of students who plan to engage in postgraduate study of Biology or medically oriented fields and to complement the general education mission of a liberal arts college. The minimum requirements for a major in Biology are listed below:

Introductory Biology. Students must complete a year of introductory biology, including the laboratory (BC 2001, 2002, 2003, 2004, or equivalent). Students who enrolled at Barnard before September 1992 are not required to take BC 2004.

Three Core Lecture Courses. One lecture course must be selected from each of the following three categories:

1. BC 3302	*Molecular Biology*	or	BC 3310	*Cells and Tissues*
2. BC 3340	*Plant Physiology*	or	BC 3360	*Mammalian Physiology*
3. BC 3370	*General Ecology*	or	BC 3372	*Population and Community Ecology*
		or	BC 3380	*Evolution*

Three Elective Lecture Courses. Students must take three additional lecture courses in Biology. Any biology lecture course can be chosen, including core courses not used to fulfill that requirement. Courses should reflect the diversity of the offerings. At least one course in genetics and one in organismal biology are recommended. Courses numbered at the 3200 level are particularly appropriate for sophomores who have completed *General Biology*; courses at the 3300 level are more advanced and may require additional prerequisites.

Three Elective Laboratories. Students must complete at least three laboratories beyond Introductory Biology; at least one of the three must be a 3300-level course. Laboratories may require a lecture course as a corequisite or prerequisite; such requirements are specified in the course descriptions below. A student may count a Guided Research project (BC 3591) as an elective laboratory in accordance with the guidelines listed below; however, only one term of Guided Research will receive credit toward the major. Biology laboratories at Barnard require a lab fee of $40 per course. Appropriate biology laboratories at Columbia University may be used to satisfy the lab requirement, as may those taken at other institutions, the latter with permission of the department chair.

Senior Seminar or Individual Research with Seminar. Students must enroll in one

section of the *Senior Seminar* (BC 3590) or complete a Guided Research project in the laboratory of a member of the Barnard Biology Department (BC 3591), including concurrent participation in the *Research Seminar* (BC 3595). If a student completes a Guided Research project in lieu of the senior seminar, she may not also use a Guided Research project to fulfill part of the laboratory requirement.

Chemistry Requirement. One year of Chemistry with laboratory, including one term of Organic Chemistry, is required (Chemistry BC 1601, BC 3328, and BC 3230).

The Graduate Record Examination is used as the major examination. The scores are also used, together with grade point average and faculty recommendations, to determine the recipients of departmental honors.

Participation in a special project (Biology BC 3591 or BC 3592) is highly recommended. These courses give the student an opportunity to conduct independent laboratory research. Both intradepartmental (BC 3591) and extradepartmental (BC 3592) projects require the approval of a faculty member in the department who serves as sponsor (intradepartmental projects) or as cosponsor (extradepartmental projects). All projects must involve planning, experimentation, and interpretation of results, and all require a formal report written in journal style. A Guided Research project (BC 3591) may be used in lieu of a Senior Seminar or an Elective Laboratory to fulfill Biology major requirements; however, Guided Research that is to be counted toward the major requires concurrent enrollment in the Research Seminar (BC 3595). Only one term of Guided Research will receive credit toward the major. Intradepartmental projects are graded by letter grade or Pass/D/Fail at the option of the faculty sponsor. Extradepartmental projects (BC 3592) earn only pass or fail grades; they do not fulfill any major requirements, but they do receive college credit.

Entering first-year students who plan to major in biology are encouraged to take these chemistry courses in addition to Biology BC 2001, 2002, 2003, and 2004 in their first year. Some upper-level biology courses require a second term of organic chemistry (Chemistry BC 3231, *Organic Chemistry II*). Students interested in attending graduate or professional schools should take additional chemistry courses (Chemistry BC 3232, *Intermediate General Chemistry*; BC 3338, *Quantitative and Instrumental Techniques Laboratory*) and in addition, one year each of calculus and physics; a course in statistics is also recommended. Students interested in behavioral biology may also wish to enroll in *Physiological Psychology* (Psychology BC 1117 or BC 1119); although the course does not fulfill any Biology major requirement, the grade for this course may be included in the Biology major average. Graduate work generally requires a working knowledge of one or more foreign languages.

Students interested in the health sciences should register with the Pre-Professional Office during their first two years and should take the MCAT exam at the end of their junior year.

REQUIREMENTS FOR THE MINOR

A minor in Biology must have one year of introductory biology (BC 2001, BC 2002, BC 2003, BC 2004), three additional lecture courses, and two additional laboratories. Biochemistry, Chemistry, Environmental Science, Physics, and Psychology majors need take only one advanced laboratory instead of two.

COURSES OF INSTRUCTION

BIO BC 1001x
Revolutionary Concepts in Biology
An exploration of the major discoveries and ideas that have revolutionized the way we view organisms and understand life. The basic concepts of cell biology, anatomy and physiology, genetics, evolution, and ecology will be traced from seminal discoveries to the modern era. The laboratory will develop these concepts and analyze biological diversity through a combined experimental

and observational approach. *(Course does not fulfill Biology major requirements or premedical requirements.)* —B. O'Gara
Enrollment in laboratory sections limited to 16 students per section.
4.5 points. Lecture M W F 9:00-9:50
Lab: Tu or Th 9:00-11:50, W or F 10:00-12:50, M Tu or Th 1:10-4:00, or W 2:10-5:00

BIO BC 1002y
Contemporary Issues in Biology
An exploration of modern biology as it pertains to contemporary issues. The first module examines the biology of viral pathogens of animal cells, in particular the virus responsible for AIDS. The second module considers human physiology and health, focusing on major health issues. The third module explores population growth and resource use, emphasizing the uniqueness of human populations. Lab exercises introduce biological techniques for studying these topics. *(Course does not fulfill Biology major requirements or premedical requirements.)* —R. McChesney, B. O'Gara, H. Young
Prerequisites: BIO BC 1001, or AP score of 4 or 5, or equivalent preparation and background. Enrollment in laboratory sections limited to 16 students per section.
4.5 points. M W F 9:00-9:50
Lab: Tu or Th 9:00-11:50, W or F 10:00-12:50, M Tu or Th 1:10-4:00, or W 2:10-5:00

BIO BC 1099y
Science and Scientists
Discussions led by research scientists from Barnard, Columbia, and other institutions. Topics include identifying research problems and conducting scientific research as well as recent conceptual and technical developments in science. —R. McChesney
Enrollment limited to 16 first- & second-year students.
1 point. W 2:10-4:00

BIO BC 2001y
Molecular, Cellular, & Developmental Biology
A detailed introduction to cellular and subcellular biology; cell structure and function; biochemical analysis of metabolic and catabolic pathways; molecular biology and the biogenesis of cell components; genetics and the biology of inheritance; patterns of development, embryology through neuralation. *(Course suitable for fulfillment of premedical requirements.)* —J. Mohler
Prerequisites: BIO BC 1001 or AP score of 4 or higher or equivalent preparation.
3 points. M W F 9:00-9:50

BIO BC 2002x
Physiology, Ecology, and Evolutionary Biology
A detailed introduction to biological phenomena above the cellular level; development, anatomy, and physiology of plants and animals; physiological, population, behavioral, and community ecology; evolutionary theory; analysis of micro-evolutionary events; systematics. —P. Hertz
(Course suitable for fulfillment of premedical requirements.) Prerequisites: BIO BC 1001 or AP score of 4 or higher or equivalent preparation.
3 points. M W F 9:00-9:50

BIO BC 2003x
Biodiversity Laboratory
A laboratory-based introduction to the five kingdoms of living organisms; anatomy, physiology, evolution, and systematics of major groups; laboratory techniques for studying specialized adaptations. —H. Young
(Course suitable for fulfillment of premedical requirements.) Prerequisites: BIO BC 1001, or AP score of 3 or higher. Enrollment limited to 16 students per section.
2 points. M 10:00-10:50 or F 1:10-2:00
Lab: Tu or Th 9:00-11:50, W or F 10:00-12:50, M Tu W or Th 1:10-4:00 or 2:10-5:00

BIO BC 2004y
Biological Experimentation Laboratory
A laboratory-based introduction to experimental biology; classic and modern approaches to the investigation of growth, development, reproduction, heredity, environmental influences, enzymes, and correlation between structure and function. Experimental design, practical techniques, and data interpretation. —B. Morton
(Course suitable for fulfillment of premedical requirements.) Prerequisites: BIO BC 1001 or AP score of 3 or higher. Enrollment limited to 16 students per section.
2 points. M 10:00-10:50 or F 1:10-2:00
Lab: Tu or Th 9:00-11:50, W or F 10:00-12:50, M Tu W or Th 1:10-4:00 or 2:10-5:00

BIO BC 3200x
Genetics
Genetics of eukaryotes, prokaryotes, and viruses, with special emphasis on human genetics; segregation; recombination, mapping, and the measurement of linkage; cytogenetics; population genetics; molecular genetics. —B. Morton
Prerequisite: BC 2001, 2002, 2003, 2004, or the equivalent. One semester of chemistry is recommended.
3 points. M W F 10:00-10:50 plus one hour required recitation TBA.

BIO BC 3201x
Laboratory in Genetics

Exercises in the use of Drosophila, Neurospora, bacteria, and bacteriophages to illustrate basic genetic principles and to investigate population genetics, linkage and recombination, and biochemical genetics; techniques used in human genetics and cytogenetics. —B. Morton
Prerequisite or corequisite: BC 3200 or the equivalent. Enrollment limited to 16 students per section. Recitation and laboratory.
3 points. W 1:10-6:00

BIO BC 3240x
Plant Biology

Evolutionary, morphological, physiological, and ecological aspects of plants, with some attention to their historical, esthetic, and economic importance. —H. Young
Prerequisite: BC 2001, 2002, 2003, 2004, or the equivalent.
3 points. M W F 11:00-11:50

BIO BC 3241x
Laboratory in Plant Biology

Studies of the structure, ecology, and evolution of green plants. A survey of major groups from the aquatic forms, the algae, to the most complex terrestial plants, the angiosperms, with emphasis on the relation of form to function. —H. Young
Prerequisite or corequisite: BC 3240. Enrollment limited to 16 students.
2 points. M 1:10-5:00

BIO BC 3250x
Invertebrate Zoology

The biology of invertebrate animals: comparative structure and physiology of the cells, tissues, and organs of invertebrates; the development, behavior, and evolution of these animals, stressing their adaptations to marine, freshwater, and terrestrial habitats. —J. Larkin
Prerequisite: BC 2001, 2002, 2003, 2004, or the equivalent.
3 points. Tu Th 10:35-11:50

BIO BC 3251x
Laboratory in Invertebrate Zoology

Prerequisite or corequisite: BC 2001, 2002, 2003, 2004, or the equivalent. BC 3250 recommended as a prerequisite or corequisite, but is not required. Enrollment limited to 24 students. Alternate years.
3 points. Not offered in 1995-96.

BIO BC 3252x
Animal Development

An introduction to animal development stressing the mechanisms that control developmental processes. Topics include spermatogenesis, oogenesis, fertilization, cleavage, establishment of the body plan, cellular events in gastrulation and morphogenesis, and control of gene expression in development. —Instructor TBA.
Prerequisites: BC 2001, 2002, 2003, 2004, or the equivalent
3 points. Offered in 1996-97.

BIO BC 3260y
Vertebrate Zoology

A systematic survey of the Phylum Chordata: fossil history, biogeography, systematics, natural history, body architechture, energetics, locomotion, feeding, and behavior. —Instructor TBA.
Prerequisite: BC 2001, 2002, 2003, 2004, or the equivalent. Alternate years.
3 points. Offered in 1996-97.

BIO BC 3280y
Animal Behavior

Introduction to animal behavior; physiological bases of behavior (sensory systems, neurophysiology of behavior, appetitive and reproductive behavior), ethological approaches to behavior (communication, territoriality, dominance, and aggression) and evolution of behavior (behavior genetics, behavioral ecology, sociobiology). —C. Handler
Prerequisite: BC 2001, 2002, 2003, 2004, or one year of psychology.
3 points. Tu Th 9:10-10:25

BIO BC 3302x
Molecular Biology

An introduction to molecular biology. Topics include: genome organization, DNA replication, regulation of RNA synthesis, protein synthesis, macromolecular cell biology, and control of gene expression in development. —J. Mohler
Prerequisites: BC 2001 or the equivalent and a year of chemistry, including one term of organic chemistry with laboratory.
3 points. M W F 9:00-9:50

BIO BC 3303y
Laboratory in Molecular Biology

An introduction to the use of molecular techniques to answer questions about subcellular biological phenomena. Techniques include isolation of genomic and plasmid DNAs, restriction enzyme analysis, DNA and protein electrophoresis, bacterial transformation, and plasmid subcloning. —J. Mohler
Prerequisite or corequisite: BC 3302 or permission of the instructor. Limited to 18 students. Alternate years.
3 points. Tu 1:10-6:00

BIO BC 3305y
Project Laboratory in Molecular Biology
Prerequisite: BC 3302 or permission of the instructor; Enrollment limited to 12 students. Alternate years.
5 points. Not offered in 1995-96.

BIO BC 3307x
Project Laboratory in Plant Molecular Biology
Prerequisites: Bio BC 2001, 2002, 2003, 2004, or the equivalent, and one semester of organic chemistry. Upper-level laboratory recommend BC3321, 3343, or 3341 and permission of the instructor. Enrollment limited to 16 students. Offered in alternate years.
5 points. Not offered in 1995-96.

BIO BC 3310y
Cells and Tissues
Structural, molecular and physiological aspects of cells and tissues in vertebrate animals; electron microscopic studies of the structure of cell organelles; modern concepts of function. —J. Larkin
Prerequisites: BC 2001, 2002, 2003, 2004, or the equivalent, and one advanced biology course. A year of chemistry, including organic chemistry, is required.
3 points. M W F 9:00-9:50

BIO BC 3311y
Laboratory in Cell and Tissue Biology
Correlated light microscopic and electron microscopic analyses of the structure of tissues and organs of vertebrate animals; demonstrations and practice in histochemical, light microscopic, and electron microscopic techniques. —J. Larkin
Prerequisite or corequisite: BC 3310 or the equivalent. Enrollment limited to 16 students.
3 points. Th 1:10-6:00

BIO BC 3320x
Microbiology
Study of prokaryotic and selected eukaryotic microorganisms with regard to cell structure, physiology, and metabolism; genetic mechanisms and interrelationships in bacteria. Some aspects of applied microbiology, the role of microorganisms in natural processes, aspects of pathogenicity, and immunity to disease. —J. Poindexter
Prerequisites: BC 2001, 2002, 2003, 2004, and one semester of organic chemistry.
3 points. M W F 11:00-11:50

BIO BC 3321x
Laboratory in Microbiology
Provides experience in the isolation, cultivation, and preservation of pure cultures of microorganisms from natural populations. Methods used for study of cell structure, growth, physiology, and genetics of bacteria will be followed by a small independent project. —J. Poindexter
Prerequisite or corequisite: BC 3320. Enrollment limited to 16 students. Recitation and laboratory.
3 points. Tu 1:10-4:00 and Th 1:10-3:00

BIO BC 3340y
Plant Physiology
Processes of metabolism, nutrition, growth, and development of green plants; photosynthesis, respiration, nitrogen and intermediate metabolism, water and solute uptake and transfer, translocation, plant growth regulators, tropisms and nasties, photoperiodism, vernalization, dormancy senescence, and death. —P. Ammirato
Prerequisites: BC 2001, 2002, 2003, 2004, or the equivalent, and one term of organic chemistry.
3 points. Alternate years. Offered in 1996-97.

BIO BC 3341y
Laboratory in Plant Physiology
Determination of water potential and transpiration rates. Solute uptake and mineral deficiency studies. The Hill reaction. CO_2 compensation points and respiration rates. Extraction, separation and identification of amino acids, nucleic acids, and plant hormones. Bioassay procedures with whole plants and cell cultures. Studies of phytochrome controlled germination and photomorphogenesis. —P. Ammirato
Prerequisite or corequisite: BC 3340. Alternate years.
3 points. Offered in 1996-97.

BIO BC 3342y
Plant Development
Prerequisites: BC 2001, 2002, 2003, 2004, or the equivalent, and one semester of organic chemistry. Alternate years.
3 points. Not offered in 1995-96.

BIO BC 3343y
Laboratory in Plant Development
Prerequisite or corequisite: BC 3342. Enrollment limited to 16 students. Alternate years.
3 points. Not offered in 1995-96.

BIO BC 3360x
Mammalian Physiology
Physiology of major organ systems; function and control of circulatory, respiratory, digestive, excretory, endocrine, nervous, and immune systems in animals; emphasis on higher vertebrates and humans. —C. Handler
Prerequisites: Three semesters of biology and one semester of organic chemistry.
3 points. Tu Th 9:10-10:25

BIO BC 3361x
Laboratory in Animal Physiology
Physiographic recording of cardiac, respiratory, and muscle function. Other exercises include enzyme kinetics, active transport, and exercise physiology. —C. Handler
Prerequisite: BC 3360. Enrollment limited to 16 students.
3 points. Recitation and laboratory W 1:10-6:00 or Th 1:10-6:00

BIO BC 3362y
Neurobiology
Structure and function of neural membranes; ionic basis of membrane potential and action potential; synaptic transmission and neurochemistry; sensory transduction and processing; reflexes and spinal cord physiology; muscle structure and function; neuronal circuitry; nervous system development. —B. O'Gara
Prerequisites: BC 2001, 2002, 2003, 2004, or the equivalent, and one semester of organic chemistry. BIO BC 3360 or PSY BC 1117 or BC 1119 is recommended.
3 points. Tu Th 10:35-11:50

BIO BC 3363y
Laboratory in Neurobiology
Introduction to techniques commonly used in current neurobiological research, including intracellular and extracellular recording of action potentials, neuroanatomical methods, and computer simulation of the action potential. —B. O'Gara
Prerequisites or corequisites: BIO BC 3362. Enrollment limited to 16 students.
3 points. W 1:10-6:00

BIO BC 3370x
General Ecology
Effects of selected physicochemical environmental factors on organisms in populations and communities; characteristics of major terrestrial and aquatic ecosystems; human influences on the environment. —Instructor TBA.
Prerequisites: BIO BC 2001, 2002, 2003, 2004, or the equivalent. A course in general chemistry is recommended. Alternate years.
3 points. Offered in 1996-97.

BIO BC 3372x
Population and Community Ecology
Introduction to evolutionary ecology; life history strategies, population growth, competition, predator-prey interactions, population regulation, species diversity, community organization, biogeography. Lectures integrate theory with empirical studies. —P. Hertz
Prerequisites: BIO BC 2001, 2002, 2003, 2004, and any additional Biology course. Alternate years.
3 points. Tu Th 10:35-11:50

BIO BC 3373y
Laboratory in Ecology
The definition of ecological problems in experimentally tractable ways; the design of experiments and analysis of ecological data; class projects on population ecology; students conduct individual projects during last month of term. —P. Hertz
Prerequisite or corequisite BC 3370 or BC 3372. Enrollment limited to 16 students. Alternate years.
3 points. M 1:10-6:00

BIO BC 3374y
Epidemiology
Principles of epidemiology and the application of epidemiologic methods to the study of human populations. Topics include study designs in epidemiology; determinants of exposure and outcome; analytic issues in acute, communicable, and chronic disease epidemiology; introductory genetic, molecular, and environmental epidemiology. —R. McChesney
Prerequisites: BC 2001, 2002, or the equivalent.
3 points. M W F 11:00-11:50

BIO BC 3380y
Evolution
A study of the process of evolution with emphasis on the mechanisms underlying evolutionary change. Topics include rates and direction of evolution, genetics of the evolutionary process, adaptive significance of sex and life history variation, coevolution. —H. Young
Prerequisites: BC 2001, 2002, 2003, 2004, or the equivalent.
3 points. M W F 10:00-10:50

BIO BC 3386x
Biometry
Application of quantitative approaches and statistical methods to the analysis of biological problems; data collection, descriptive statistics, probability theory, inferential statistics. Computer applications for data analysis. Examples to be drawn from contemporary biology. —R. McChesney
Prerequisites: BC 2001, 2002, 2003, 2004, college-level algebra, or the equivalent. Enrollment limited to 16 students.
4 points. M W F 10:00-10:50 plus two-hour required computer practicum TBA.

BIO BC 3590x, y
Senior Seminars in Biology
Required of all majors who do not select Guided Research (BIO BC 3591) to fulfill the senior requirement, these seminars allow students to explore the primary literature in the Biological Sciences in greater depth than can be achieved in a lecture course. Attention will be focused on both theoretical and empirical work. Seminar periods are devoted to oral reports and discussion of assigned readings and student reports. Students will write one extensive literature review of a topic related to the central theme of the seminar section.
4 points.

1. Plant Biotechnology
—P. Ammirato
Not offered in 1995-96.

2. Sociobiology
—J. Chase
Not offered in 1995-96.

3. Evolutionary Ecology
—P. Hertz
Not offered in 1995-96.

4. Molecular and Development Genetics
—J. Mohler
x: Th 4:10-6:00

5. Tropical Biology
— H. Young
Not offered in 1995-96.

6. Virus Structure and Propagation
— J. Poindexter
Not offered in 1995-96.

7. Neurobiology
— B. O'Gara
Not offered in 1995-96.

8. Population Health
— R. McChesney
Not offered in 1995-96.

9. Molecular Regulation of Intracellular Trafficking
—J. Larkin
x: F 2:10-4:00

10. Molecular Evolution
—B. Morton
y: F 2:10-4:00

11. Physiology of Animal Chemical Communication
—C. Handler
y: Th 2:10-4:00

BIO BC 3591x, y
Guided Research in Biology
Independent research in the department to suit the needs of the individual student in consultation with faculty sponsor. Participation in department Research Seminar (BC 3595) required.—Staff
Prerequisites: Three semesters of college biology and permission of a faculty sponsor. Corequisite: BC 3595. Graded with a letter grade or P/D/F at the discretion of the faculty supervisor.*
4 points. Hours for research and seminar TBA.

BIO BC 3592x, y
External Research in Biology
Research projects conducted outside the department developed in consultation with a faculty member who serves as cosponsor. —Staff
Prerequisites: Three semesters of college biology and permission of a faculty cosponsor. 1-4 points. Hours TBA. NOTE: BC 3592 does not receive credit toward the biology major. Graded P/D/F.*

BIO BC 3593x-3594y
Research and Seminar in Biopsychology
Independent research under faculty supervision culminating in a research paper and oral presentation. Throughout the year, weekly seminars will be used to discuss research approaches, methodological difficulties, and data analysis. —Staff
Prerequisites: Six of the required courses for the biopsychology major.
4 points. Hours TBA.

BIO BC 3595 x,y
Research Seminar
Discussions of approaches to research, methods of scientific communication, and the presentation of scientific data, culminating in a paper and oral report of the results of a research project guided by a faculty sponsor. —R. McChesney
Corequisite: BC 3591.
1 point. Hours TBA.

NOTE: Students may take any of the following courses as elective lectures or elective laboratories in fulfillment of the major requirement. Prior permission must be obtained from the Chair of the Barnard Biology Department before other Columbia courses can be used to fulfill the Biology major requirement.

BIO W 3002y
Introduction to Animal Structure and Function
—W. Bock
Prerequisites: One year each of biology and physics.
6 points. Lec: M W F 9:00-9:50
Lab: M Tu W or Th 1:10-5:00,
M or W 6:10-10:00

BIO C 3046y
Project Laboratory in Eucaryotic Gene Expression
—T. Hazelrigg
Prerequisites: One year of biology and permission of the instructor. Application must be submitted in Room 600 Fairchild.
5 points. Tu and Th 1:10-5:00 and additional hours TBA.

BIO C 3052x
Project Laboratory in Molecular Genetics
—A. Tzagoloff
Prerequisites: One year of biology and permission of the instructor. Application must be submitted in Room 600 Fairchild.
5 points. Tu and Th 1:10-5:00 and additional hours TBA.

Biology-Chemistry BCH C 3501x
Biochemistry I: Structure and Metabolism
—T. Melese and G. Zubav
Prerequisites: C 1005 and one year of organic chemistry.
4 points. M W F 10:00, plus one hour recitation TBA.

BIOPSYCHOLOGY

1203 Altschul Hall 854-2437

Advisers: Bruce O'Gara (Biological Sciences), Rae Silver (Psychology)

The program in Biopsychology is jointly administered by the departments of Biological Sciences and Psychology, and students should maintain contact with the advisers in both departments. A major in Biopsychology provides a strong background in the behavioral sciences and is intended for students who plan to pursue a research career in Biopsychology or Behavioral/Cognitive Neuroscience or related disciplines. Students electing this track are exposed to basic courses in Biology and Psychology and advanced courses necessary for the study of behavior. All students engage in two semesters of independent research in the senior year. Substitutions for required courses may be allowed with the approval of both advisers. To become a Biopsychology major, students must have completed at least two required courses in each discipline (Biology, Chemistry, and Psychology) before the beginning of their junior year with a B average in these courses.

The major examination consists of the Graduate Record Examination in either Psychology or Biology.

Students may also arrange interdisciplinary programs by electing a major in either Psychology or Biological Sciences and a minor in the other discipline, or by planning a double major. There is no minor in Biopsychology.

REQUIREMENTS FOR THE MAJOR

Psychology	BC 1001	*Introduction to Psychology*
Biology	BC 2001, 2002, 2003, 2004	*Introductory Biology*
Psychology	BC 1105	*Psychology of Learning with Laboratory*
Biology	BC 3280	*Animal Behavior*
Biology/Psych	BC 3593-BC 3594	*Research and Seminar in Biopsychology*

One of the following courses:

Biology	BC 3386	*Biometry*
Psychology	BC 1101	*Statistics*

Two of the following courses; one must include the associated laboratory:

Psychology	BC 1117 or BC 1119	*Physiological Psychology*
Biology	BC 3360/3361	*Mammalian Physiology/Physiology Laboratory*
Biology	BC 3362/3363	*Neurobiology/Neurobiology Laboratory*

Two advanced courses selected from different categories below:

I.	Psychology BC 2154	*Hormones and Reproductive Behavior*
	Psychology BC 3378	*Females and Males*
	Psychology BC 3169	*Developmental Psychobiology*
II.	Biology BC 3370	*General Ecology*
	Biology BC 3372	*Population and Community Ecology*
	Biology BC 3380	*Evolution*
III.	Psychology BC 3164	*Perception and Language*
	Psychology BC 3375	*Organization of Movement*
	Psychology BC 3374	*Theories of Learning*
	Psychology BC 3380	*Fundamentals of Neuropsychology*
IV.	Biology BC 3200	*Genetics*
	Biology BC 3302	*Molecular Biology*
	Biology BC 3310	*Cells and Tissues*
	Biology-Chemistry C3501	*Biochemistry*
	Biochemistry G 4021	*General Biochemistry*

Cognate Courses

The following chemistry courses are required: BC 1601, BC 3328, and BC 3230. Students are encouraged to take additional courses in chemistry, physics, and math if they intend to apply to medical or graduate schools.

CHEMISTRY

705 Altschul Hall 854-8461

Professors: Sally Chapman[1], Leslie Lessinger (Chair)

Assistant Professors: Elise Megehee, Marco Pagnotta, Daniel Robie, Ann Shinnar

Director of General Chemistry Laboratories: Olympia Jebejian

Director of Organic Chemistry Laboratories: James Carter

Associates: Donald Estes, Frances Feerst, Tauqir Fillebeen, Toby Holtz, Colette Levi, Heidi Reese, Meenakshi Rao, Noraini Yatim

[1]Absent on leave Spring term

Chemistry is the study of the nature of substances and their transformations. In a three-year sequence of core courses, a chemistry or biochemistry major gains familiarity with the basic areas of the field: inorganic, organic, physical, and analytical chemistry. In addition, she acquires sufficient skill in the laboratory so that she is prepared for independent research.

Students who have taken the Advanced Placement Test may be given advanced placement and one semester's credit with scores of 4 or 5, if they present evidence of satisfactory laboratory experience.

The laboratories of the department are modern and well equipped both for coursework and for independent projects. Students may undertake independent research projects under the guidance of members of the department during the academic year or the summer; some student work has been published in chemical journals. Opportunities are also available for undertaking research projects with members of the staff of one of the many medical schools or research institutions in New York City, as well as with the Columbia faculty.

Students wishing to fulfill the minimum two-year chemistry requirement for medical school should take Chemistry BC 1601, *General Chemistry*; Chemistry BC 3328, BC 3230, and BC 3231, *Organic Chemistry I* and *II* with laboratory; and Chemistry BC 3232, *Intermediate General Chemistry*. The laboratory courses Chemistry BC 3333 and 3338 are recommended.

Credit will not be given for any course below the 3000 level after completing Chemistry BC 3230 or its equivalent.

The laboratory fee covers the cost of non-returnable items, laboratory manuals, chemicals, and other consumable supplies, as well as reasonable breakage. Enrollment is limited in all laboratories; students must sign up during the preregistration period.

REQUIREMENTS FOR THE MAJOR

Two majors are offered by the department: chemistry and biochemistry. A major examination is required for both chemistry and biochemistry; there is no senior essay required for either. Qualified seniors are invited to participate in the senior honors program in which they carry out a year-long research project leading to a thesis.

Chemistry

A student who is interested in chemistry should consult any member of the department during her first year. In the first year she should take Chemistry BC 1601, BC 3328, and BC 3230, and start or continue the study of calculus. It is then possible for her to fulfill the basic requirements for the major in three years and to take advanced courses in the senior year. After completing the undergraduate curriculum, students are encouraged to take graduate courses in chemistry or biochemistry at Columbia, and to undertake independent research projects.

Courses required for the chemistry major are:

Chemistry BC 1601	*General Chemistry I*
Chemistry BC 3328, 3230	*Organic Chemistry I with Laboratory*
Chemistry BC 3231	*Organic Chemistry II*
Chemistry BC 3335	*Modern Techniques of Organic Chemistry Laboratory*
Chemistry BC 3340	*Quantitative and Instrumental Techniques Laboratory*
Chemistry BC 3252	*Introduction to Thermodynamics and Kinetics*
Chemistry BC 3253	*Structure, Bonding, and Spectroscopy*
Chemistry BC 3254	*Methods and Applications in Physical Chemistry*
Chemistry BC 3271	*Inorganic Chemistry*
Chemistry BC 3365, 3368	*Advanced Chemistry Laboratory*
Mathematics	*Calculus I and II in any sequence (S, A, or honors)*
Physics BC 1206, 1207 or V 1301, 1302 with V 1391, 1392; or C 1401, 1402 with C 1491, 1492	*Calculus-based Physics with Laboratory*

Recommended: *Calculus III.*

A list of major requirements, several possible course sequences, and information about the major examination may be obtained from any member of the department.

Research experience is strongly recommended for students planning graduate study. Students interested in taking Chemistry BC 3599 should consult with individual faculty members about the research problems currently being investigated.

Biochemistry

Courses required for the biochemistry major are:

Chemistry BC 1601	*General Chemistry I*
Chemistry BC 3328, 3230	*Organic Chemistry I with Laboratory*
Chemistry BC 3231	*Organic Chemistry II*
Chemistry BC 3333	*Modern Techniques of Organic Chemistry Laboratory*
Chemistry BC 3338	*Quantitative and Instrumental Techniques Laboratory*
Chemistry BC 3252	*Introduction to Thermodynamics and Kinetics*
Chemistry BC 3253	*Structure, Bonding, and Spectroscopy*
Chemistry BC 3254	*Methods and Applications in Physical Chemistry*
Mathematics	*Calculus I and II in any sequence (S, A, or honors)*
Physics BC 1206, 1207 or V 1301, 1302 with V 1391, 1392, or C 1401, 1402 with C 1491, 1492	*Calculus-based Physics with Laboratory* or
Biology BC 2001, 2002, with 2003 or 2004	*General Biology with Laboratory*
Biology-Chemistry C 3501	*Biochemistry I*
Biology-Chemistry C 3512 or Biology BC 3302	*Molecular Biology*
Chemistry BC 3355	*Biochemistry Laboratory Techniques*

A 3-point elective course from a list of approved Biology and Chemistry courses.

A list of major requirements, including the courses from which the advanced laboratory and lecture electives are to be selected, and information about the major examination, may be obtained from any member of the department.

REQUIREMENTS FOR THE MINOR

Courses required for the Chemistry minor are: Chemistry BC 1601, BC 3328, BC 3230, BC 3231, BC 3333, BC 3338, and BC 3232 or BC 3252. There is no minor in biochemistry.

COURSES OF INSTRUCTION

CHE BC 1601x
General Chemistry I

Particulate nature of matter in various states; chemical transformations, especially of ionic substances; properties of gases; solutions; equilibrium; acid-base, precipitation, and oxidation-reduction reactions; thermochemistry; laboratory experience with both qualitative and quantitative techniques. —S. Chapman, E. Megehee, D. Robie, O. Jebejian, and associates
Prerequisite: Algebra (Math SAT I score of 600 or permission of the instructor for first-year students).
5 points. Lecture Tu Th 9:10-10:25
Recitation one afternoon M T W Th or F 1:10-2:00. Laboratory same afternoon as recitation M Tu W Th or F 2:00-5:00, or F 9:00-12:00. Lecture and lab must be taken together unless permission of the instructor is given at the time of program filing.
Laboratory fee: $28.

CHE BC 1602y
General Chemistry II

Kinetics and mechanisms of chemical reactions; nuclear chemistry and radioactivity; atomic and molecular structure; selected topics in environmental chemistry, organic chemistry, and biochemistry. —D. Robie
Prerequisite: BC 1601 or permission of the instructor. Students who have completed BC 3230 or its equivalent may not subsequently receive credit toward the degree for BC 1602. Primarily for majors in fields other than science.
5 points. Lecture Tu Th 9:10-10:25
Recitation one afternoon M or F 1:10-2:00
Laboratory same afternoon as recitation M or F 2:00-5:00. Laboratory fee: $28.

CHE BC 1702y
General Chemistry II Laboratory

Laboratory portion of Chemistry BC 1602.
—M. Rao
Prerequisite: General Chemistry I with laboratory.
Corequisite: General Chemistry II lectures and permission of the instructor.
2 points.
Recitation one afternoon M or F 1:10-2:00
Laboratory same afternoon as recitation M or F 2:00-5:00. Laboratory fee: $28.

CHE BC 3328y
Introductory Organic Chemistry Laboratory

Basic techniques of experimental organic chemistry. Principles and methods of separation, purification, and characterization of organic compounds and techniques of compound preparation. —J. Carter and associates
Prerequisite: BC 1601 or equivalent with grade of C or better, or BC 1601 and BC 1602 or equivalent.
Corequisite: BC 3230 or equivalent.
2.5 points. Lecture one afternoon M Tu W Th or F 1:00-1:50. Laboratory same afternoon as lecture M Tu W Th or F 1:50-5:30, or W or F 8:00-12:00.
Laboratory fee: $35.

CHE BC 3230y
Organic Chemistry I

Atomic and molecular structure; an introduction to aliphatic and aromatic chemistry with emphasis on modern theories; basic organic reaction mechanisms, stereochemistry, and spectroscopy.
—M. Pagnotta
Prerequisite: BC 1601 or equivalent with a grade of C or better, or BC 1601 and BC 1602 or equivalent. Credit will not be given for any course below the 3000 level after completing Chemistry BC 3230 or its equivalent.
3 points. Lecture Tu Th 9:10-10:25
Problem section F 12:00

CHE BC 3231x
Organic Chemistry II

Continued treatment of the topics of Organic Chemistry I with extensions and an introduction to biological compounds and bio-macromolecules.
—M. Pagnotta
Prerequisite: BC 3230.
3 points. M W F 10:00-10:50
Problem section Tu 12:00

CHE BC 3232y
Intermediate General Chemistry

Selected aspects of general chemistry, primarily for premedical and biological science students without the background for Chemistry BC 3252. Thermochemistry, chemical equilibrium, chemical kinetics, complex ions and coordination compounds, and nuclear chemistry, with applications to analytical chemistry and biochemistry.
—E. Megehee

Prerequisites: BC 1601 and Organic Chemistry I. BC 3230 may be taken as a corequisite with permission of the instructor. Optional parallel laboratory work: BC 3338. Course C 1404 is not an acceptable equivalent for BC 3232.
3 points. M W F 10:00-10:50

CHE BC 3333x
Modern Techniques of Organic Chemistry Laboratory

Introduction to qualitative and quantitative organic analysis and to advanced techniques, emphasizing instrumental and chromatographic methods. —M. Pagnotta
Prerequisites: BC 3328 and BC 3230.
Corequisite: BC 3231.
3 points. Lecture Th 1:10-2:00
Laboratory one afternoon Tu 1:10-5:30 or Th 2:10-6:00 or F 12:10-4:30. Laboratory fee: $35.

CHE BC 3335x
Modern Techniques of Organic Chemistry Laboratory

Identical with BC 3333, but with a library problem, a short project, and additional preparative experiments. —M. Pagnotta
Prerequisites: BC 3328 and BC 3230. Corequisite: BC 3231.
5 points. Lecture Th 1:10-2:00
Laboratory two afternoons Tu 1:10-5:30, Th 2:10-6:30. Laboratory fee: $35.

CHE BC 3337x
Modern Techniques of Organic Chemistry Laboratory

Prerequisite: BC 3333x.
2 points.
Laboratory one afternoon Tu 1:10-5:30 or Th 2:10-6:30 or F 12:10-4:30
Note: *CHE BC 3338y + 3342y = 3340y*

CHE BC 3338y
Quantitative and Instrumental Techniques Laboratory

Quantitative techniques in volumetric analysis, radiochemistry, spectrophotometry, and pH measurement. Biochemical applications are included and some experience with computers is provided. —Instructor TBA and O. Jebejian
Corequisite for students not majoring in chemistry or biochemistry: BC 3232 or BC 3252.
3 points. Lecture Tu 1:10-2:00
Laboratory Tu 2:10-6:00 or Th 1:10-5:00.
Laboratory fee: $35.

CHE BC 3340y
Quantitative and Instrumental Techniques Laboratory

Identical with BC 3338, but with a greater variety and number of experiments. —A. Shinnar and O. Jebejian
Corequisite for students not majoring in chemistry or biochemistry: BC 3232 or BC 3252.
5 points. Lecture Tu 1:10-2:00
Laboratory two afternoons Tu 2:10-6:00 and Th 1:10-5:00. Laboratory fee: $35.

CHE BC 3342y
Quantitative and Instrumental Techniques Laboratory

Prerequisite: BC 3338y.
2 points.
Laboratory one afternoon Tu 2:10-6:00 or Th 1:10-5:00
Note: *CHE BC 3338y + 3342y = 3340y*

CHE BC 3252y
Introduction to Thermodynamics and Kinetics

Thermodynamics: introduction to the laws; application primarily to ideal systems. Free energy and equilibrium. Kinetics: rate laws and mechanisms, experimental techniques. —D. Robie
Prerequisites: CHE BC 3231, Physics I (Mechanics), and Calculus II.
4 points. Lecture M W F 10:00-10:50, F 12:00-12:50

CHE BC 3253x
Structure, Bonding, and Spectroscopy

Elementary quantum chemistry: exact solutions to the Schrödinger equation. The structure of atoms and molecules. Energy levels and spectra. —L. Lessinger
Prerequisites: Physics II and Calculus II.
4 points. Lecture M W F 11:00-11:50, M 12:00-12:50

CHE BC 3254y
Methods and Applications in Physical Chemistry

Applications of thermodynamics to real systems; activities, electrochemistry. Transport properties. The kinetic theory of gases. Radiochemistry, solids, and macromolecular crystallography. —L. Lessinger
Prerequisites: CHE BC 3252, 3253
4 points. Lecture M W F 11:00-11:50, M 12:00-12:50

CHE BC 3271x
Introduction to Inorganic Chemistry

A systemic introduction to the structure and reactivity of inorganic compounds: bonding, reaction mechanisms, selected main group chemistry, transition metal chemistry, organometallics, clusters, catalysis, and bioinorganic chemistry. —E. Megehee
Prerequisite: CHE BC 3230y.
3 points. Lecture Tu Th 9:10-10:25

CHE BC 3355x
Biochemistry Laboratory Techniques

Experience with fundamental techniques used in the isolation, characterization, and study of biomolecules. Techniques employed include homogenization, centrifugation, solvent extraction, salt fractionation, chromatography, electrophoresis, chemical and enzymic assays, enzyme kinetics, and simple genetic cell transformation methods. —A. Shinnar
Prerequisites: One year of Organic Chemistry, one year of Biology, four semesters of Chemistry and Biology laboratory, and Biology-Chemistry C 3501 or Biochemistry G 4021.
5 points. Lecture Tu 1:10-2:00
Laboratory Tu 2:10-6:00 and Th 1:10-5:00
Laboratory fee: $45.

CHE 3357x
Biochemistry Laboratory Techniques

Identical to BC 3355, but experiments are modified to be accomplished in one laboratory period per week. This course may be of particular interest to biology and chemistry majors. —A. Shinnar
Prerequisites: Same as BC 3355.
3 points. Lecture Tu 1:10-2:00
Laboratory Tu 2:10-6:00 or Th 1:10-5:00
Laboratory fee: $35.

CHE BC 3365x
Advanced Chemistry Laboratory

Experiments in kinetics, thermodynamics, and electrochemistry using instrumental methods; preparation and characterization of inorganic compounds; some computer applications. —D. Robie
Prerequisites: BC 3252 and BC 3338 or equivalent.
3 points. Lecture Tu 12:00-12:50
Laboratory M W 1:10-5:00. Schedule TBA.
Laboratory fee: $35.

CHE BC 3368y
Advanced Chemistry Laboratory

Experiments in various types of spectroscopy. —E. Megehee
Prerequisites: Identical to those for BC 3365.
3 points. Lecture Tu 12:00-12:50
Laboratory M W 1:10-5:00. Schedule TBA.

CHE BC 3598x, 3598y
External Problems in Chemistry

Advanced individual research projects at other institutions. —Staff
Prerequisites: Completion of laboratory courses BC 3333 and BC 3338. Mandatory pass/fail grading. Permission of the instructor (a Barnard professor who will act as liaison) is required.
4 points.

CHE BC 3599x, 3599y
Problems in Chemistry

Advanced individual research projects at Barnard. —Staff
Prerequisites: Completion of laboratory courses BC 3333 and BC 3338. Permission of the instructor required.
4 points. Eight hours by arrangement.
Laboratory fee: $35.

CHE BC 3901x-3902y
Senior Honors Thesis

Guided research in Chemistry or Biochemistry, under the sponsorship of a member of the department, leading to the senior thesis. Weekly seminar. —Staff
Enrollment restricted to seniors, by invitation of the department.
4 points. F 2:00-2:50 and 8 hours research TBA.

SUMMER RESEARCH

There are available a number of fellowships for summer research within the department. Individual members of the department should be consulted, early in the spring semester, about the availability of projects.

OTHER COURSES

Attention is called to the following courses offered elsewhere in the University. All require at least four semesters of chemistry as prerequisites.

Biology-Chemistry BCH C 3501x
Biochemistry I

—T. Melese and G. Zubay
4 points. M W F 10:00-10:50

Biology-Chemistry BCH C 3512y
Biochemistry II

—C. Purvis and R. Pollack
3 points. Tu Th 9:10-10:25

CHE C 3071y
Introduction to Inorganic Chemistry

—G. Parkin
3 points. Lecture Tu Th 9:10-10:25.
This course is equivalent to BC 3271x.

Chemistry CHE G 4103x
Advanced Inorganic Chemistry I
—R. Beer
4.5 points. Tu Th 10:35-11:50

Chemistry CHE G 4131x
Introductory Quantum Chemistry
—B. Bent
4.5 points. Tu Th 9:10-10:25

Chemistry CHE G 4147x
Advanced Organic Chemistry
—D. Horne
4.5 points. M W F 11:00-11:50

Chemistry CHE G 4141y
Organic Spectroscopy
—K. Nakanishi
4.5 points. Tu Th 10:35-11:50

Chemistry CHE G 4170x
Biophysical Chemistry
—A. McDermott
4.5 points. M W F 9:00-9:50

Chemistry CHE G 4172y
Bio-Organic Topics
—K. Nakanishi
4.5 points. Tu Th 10:35-11:50

Chemistry CHE G 4221x
Quantum Chemistry I
—R. Friesner
4.5 points. M W F 12:00-12:50

Chemistry CHE G 4230x
Statistical Thermodynamics
—R. Bersohn
4.5 points. Tu Th 9:10-10:25

CLASSICS

216 Milbank Hall 854-2852, 8312

Professors: Helene P. Foley (Chair), Lydia H. Lenaghan[2]

Other officers of the University offering courses in Classics:

Professors: Roger S. Bagnall[1], Alan D. E. Cameron, James R. Coulter, Suzanne Saïd[2], Leonardo Tarán, James E. G. Zetzel

Associate Professors: Carmela Franklin, Mark J. Petrini

Assistant Professors: James B. Rives, Deborah T. Steiner, Gareth D. Williams[1]

Assistant Professor of Modern Greek: Karen Van Dyck

Lecturer in Modern Greek: Maria Leontsini[1]

Instructor in Modern Greek: Vasilliki Yiakoumaki

[1]Absent on leave 1995-96

[2]Absent on leave Spring term

The objective of the department is to provide students with a knowledge of the language and an understanding of the literature and civilization of the ancient Greeks and Romans. The close cooperation of Barnard and Columbia in planning and implementing the curriculum offers students a wide range of specialties from which to construct a sound and coherent program of studies according to their individual interests. All members of the Barnard department are available as advisers and should be consulted as early as possible in the planning of a major program.

Students may fulfill the foreign language requirement in Greek by completing Greek V 1201 and V 1202, or in Latin by completing Latin V 1201 and V 1202, or by completing one semester of study above Greek V 1201 and V 1202 or Latin V 1201 and V 1202, or by passing an exemption examination with a sufficiently high grade. This examination tests the student's knowledge of grammar and her ability to translate written Greek or Latin.

The Classics Department is the beneficiary of the Matthew Alan Kramer Fund, whose principal purpose is the support of the production of plays in Ancient Greek and Latin. In recent years students of the department have produced *Antigone*, *Medea*, *Alcestis*, *Persians*, *Eumenides*, *Cyclops*, *Electra*, *Clouds*, *Trojan Women*, *Rudens*, *Helen*, *Trachiniae,* and *Bacchae*, which have not only proved satisfying in themselves, but have provided an exciting and different learning experience for the participants.

Barnard College participates in the program of the Intercollegiate Center for Classical Studies in Rome. Majors in Classics or Ancient Studies are eligible to apply for admission to the program of the Rome Center for one semester, preferably in the junior year. Courses taken at the Rome Center may be used in the major and, in some cases, may be used to satisfy distribution requirements. Barnard College is a Supporting Institution of the American School of Classical Studies at Athens and the American Academy in Rome, and certain privileges of those schools are open without fee to graduates of the College.

REQUIREMENTS FOR THE MAJOR IN GREEK, LATIN, AND GREEK AND LATIN

The major in Greek or Latin requires a minimum of eight courses above the elementary level.

In Greek, this would be fulfilled by taking

Greek W 4139	*Elements of Greek Prose Style*
Greek W 4105-W 4106	*History of Greek Literature*

and five others, including Greek V 3996x *Major Seminar*.

In Latin, this would be fulfilled by taking

Latin W 4139 *Elements of Latin Prose Style*
Latin W 4105-W 4106. *History of Latin Literature*
and five others, including Latin V 3996x *Major Seminar.*

Greek or Latin V 3998 may be substituted for a semester of the survey, but students planning to go on to graduate study in classics are strongly urged to take both semesters of W 4105, W 4106.

In addition, two semesters of ancient history appropriate to the major are required. For one of these, however, a relevant course in ancient art, classical civilization or literature, ancient philosophy, or religion may be substituted.

Majors in Latin, especially those who have begun their study in high school, are strongly advised to take at least two semesters of Greek.

A student may elect to major in both Greek and Latin by completing the major requirements in one language and five courses above the elementary level in the other.

Note: For the requirements for the major in Ancient Studies, see Ancient Studies.

REQUIREMENTS FOR THE MINOR

The minor in Greek or Latin requires five courses above the elementary level.

COURSES OF INSTRUCTION

CLASSICS IN TRANSLATION

There are no prerequisites for the Classical Literature or Classical Civilization courses unless specially noted.

Classical Literature CLL V 3132x
Classical Myth
Survey of major myths from the ancient Near East to the advent of Christianity, with emphasis upon the content and treatment of myths in classical authors (Homer, Hesiod, Aeschylus, Euripides, Sophocles, Vergil, Livy, Ovid). —D. Steiner
3 points. Tu Th 1:10-2:25 *III H*

Classical Literature CLL V 3123x
Greek Drama and Its Influences
Evolution of various types of tragedy and comedy from the 5th century B.C.E. in Athens to the 1st century C.E. in Rome: relation of these forms to later European dramatic forms; theories of comedy and tragedy including those of Aristotle; the production of plays. —S. Saïd
3 points. M W 9:10-10:25 *III H*

Classical Literature CLL V 3135y
The Ancient Novel
3 points. Not offered in 1995-96. *III H*

Classical Literature CLL W 4320y
Myth and Ritual
Prerequisite: CLL 3132 or permission of the instructor.
3 points. Not offered in 1995-96. *I H*

Classical Literature CLL W 4300y
The Classical Tradition
Social, political, intellectual, and religious contexts in which epic, lyric, tragic, and comic poetry originally developed in Greece; Roman adaptations and their influence on modern authors. —M. Petrini
3 points. M W 6:10-7:25 *III H*

Classical Literature CLL W 4100x
The Reception of Antiquity
3 points. Not offered in 1995-96. *III H*

Classical Civilization CLC W4110y
Gender and Sexuality in Ancient Greece
Examination of the ways in which gender and sexuality are construed in ancient Greek society and represented in literature and art, with attention to scientific theory, ritual practice, and philosophical speculation. Topics include conceptions of the body, erotic and homoerotic literature and practice, legal constraints, pornography, rape, and prostitution. —H. Foley
Sophomore standing or permission of the instructor.
3 points. M W 1:10-2:25 *I H*

Classical Civilization CLC V4100y
The Handwritten Book
3 points. Not offered in 1995-96. *III H*

Classical Civilization CLC V 3158x
Women in Antiquity
The role of women in ancient Greek and Latin literature; the portrayal of women in literature as

opposed to their actual social status; male and female in ancient Mediterranean cosmologies; readings from ancient epics, lyric drama, history, historical documents, medical texts, oratory, and philosophy, as well as from contemporary sociological and anthropological works that help to analyze the origins of the Western attitude toward women. —H. Foley
3 points. M W 11:00-12:15 *I H*

Classical Civilization CLC V 3162x
Ancient Law
3 points. Not offered in 1995-96. *III S*

Classical Civilization CLC V 3164y
The Emperor Nero and the Roman World
3 points. Not offered in 1995-96. *III H*

Classical Civilization CLC V 3160y
The Age of Augustus
3 points. Not offered in 1995-96. *III H*

Classical Civilization CLC W 4120y
Education and Literacy in the Greco-Roman World
A study of the importance and limits of literacy and of the characteristics and changes in education in the Greek and Roman world, based on literary and archaeological sources, the anecdotal tradition, and the school exercises of Greco-Roman Egypt. —R. Cribiore
3 points. Tu Th 2:40-3:55 *III H*

Classical Civilization CLC W 4200y
Egypt and Hellenism
3 points. Not offered in 1995-96. *I H*

Ancient Studies ANC W 4000x
Introduction to Ancient Studies
This seminar is an introduction to the interdisciplinary study of the ancient world; the topic will vary from year to year. The topic for 1995-96 will be the society, government, and culture of late antiquity (ca. 275-565 C.E.). Required of students entering the MALS Program in Ancient Studies and open to other graduate and undergraduate students with permission of the instructor. —A. Cameron
3 points. W 6:10-8:00 *III H*

GREEK LANGUAGE AND LITERATURE

GRE V 1101x-V 1102y
Elementary Full-Year Course
Grammar, composition, and reading. In Greek 1102 a dialogue of Plato, generally the Apology, will be read. —M. Petrini
1101 is prerequisite to 1102. No credit is given for 1101 unless 1102 is completed.
4 points. M W F 11:00-12:15

GRE V 1121x, y
Intensive Elementary Course
This course is designed to cover all of Greek grammar and syntax in one semester in order to prepare a student to enter third semester Greek. —x: Z. Martirosova, y: A. Carriker
4 points. M W F 9:10-10:25

GRE V 1201x
Greek Literature: Prose and Poetry
Selections from Attic prose and early elegiac poetry. There will be weekly assignments to review forms and syntax. —L. Tarán
Prerequisite: V 1101-V 1102 or V 1121.
4 points. Tu Th 10:35-11:50, F 10:35-11:25 *H*

GRE V 1202y
Selections from Homer
Detailed grammatical and literary study of several books of the *Iliad* and introduction to the techniques of oral poetry, to the Homeric hexameter, and to the historical background of Homer. —J. Coulter
Prerequisite: V 1101-V 1102 or V 1121, or permission of the instructor.
4 points. M W 1:10-2:25, F 1:10-2:00 *H*

GRE V 1203x
New Testament
Prerequisite: V 1101-V 1102 or V 1121.
4 points. Not offered in 1995-96 *H*

GRE V 1221y
Intensive Intermediate Greek
Covers the content of Greek V 1201 and 1202 in one term. Readings from Lysias, early elegiac and lyric poetry, and the *Iliad*. —C. Hartmann
Prerequisite: V 1101-V 1102, or V 1121.
4 points. M W F 9:10-10:25 *H*

GRE V 3310x
Selections from Greek Literature: Poetry
Content of course changes each year; it may be taken in consecutive years. Topic for 1995-96: A detailed study of Sophocles' *Antigone* and *Philoctetes*. —H. Foley
Prerequisite: Greek V 1201-1202, or their equivalents.
3 points. M W 1:10-2:25 *H*

GRE V 3309y
Selections from Greek Literature: Prose
Content of course changes each year; it may be taken in consecutive years. Topic for 1995-96: Thucydides, selected readings from Books I and II. Emphasis on language, historiography, and history. —L. Tarán
Prerequisites: Greek V 1201-1202, or their equivalents.
3 points. M W 9:10-10:25 *H*

GRE V 3996x
Major Seminar
Required for all majors in classics and classical studies. The topic will change from year to year but will always be broad enough to accommodate students in the languages as well as those in the interdisciplinary major. Topic for 1995-96: Epic. Readings in Greek, Latin, and English translation as appropriate, weekly presentation of short papers and discussion, one long paper. —M. Petrini
Prerequisites: junior standing
4 points. Th 4:10-6:00 H

GRE V 3997x, GRE V 3997y
Directed Reading
To be tested by a series of short papers, one long paper, or an oral or written examination. —Staff
Permission of the chairman of the department required.
3 points. Hours TBA.

GRE V 3998x, GRE V 3998y
Supervised Research in Greek Literature
Program of research in Greek literature, with the composition of a paper embodying results. —Staff
Permission of the chairman of the department required.
3 points. Hours TBA.

GRE W 4009x
Selections from Greek Literature: Prose
Content of course changes from year to year; it may be taken in consecutive years. Topic for 1995-96: Greek orators. Detailed readings of Lysias, *Against Eratosthenes*, Isocractes, *Panegyricus*, and Demosthesenes, *Philippics I.* —L. Tarán
Prerequisites: V 1201-1202, or their equivalents.
3 points. Tu Th 9:10-10:25 H

GRE W 4010y
Selections from Greek Literature: Poetry
Content of course changes from year to year; it may be taken in consecutive years. Topic for 1995-96: Epic. Selections from the *Odyssey*. Introduction to Homeric language, style, and narrative. —J. Coulter
Prerequisites: GRE V 1201-1202, or their equivalents.
3 points. M W 11:00-12:15 H

GRE W 4105x, 4106y
History of Greek Literature
Lectures based on extensive readings in Greek literature from Homer to the fourth century C.E. —x: S. Saïd; y: L. Tarán
Prerequisite: At least two terms of Greek beyond V 1201, V 1202.
4 points. M W 2:10-4:00 H

GRE W 4139x
Elements of Greek Prose Style
Intensive review of Greek syntax. Writing of sentences and connected passages in Greek. —J. Coulter
Prerequisite: At least four terms of Greek, or the equivalent.
3 points. Tu Th 11:00-12:15

LATIN LANGUAGE AND LITERATURE

LAT V 1101x-1102y; 1102x, 1101y
Elementary Full-Year Course
V 1101: Grammar, composition, and reading. V 1102: Complete review of grammar and syntax; emphasis on representative readings. —Staff
V 1101 is normally prerequisite to V 1102. V 1102 may be taken without V 1101 by permission of the instructor. No credit is given for V 1101 until V 1102 is completed.
4 points.
V 1101x Sec. 1 M W F 1:10-2:25 —C. Franklin
Sec. 2 Tu Th F 11:00-12:15 —S. Butler
Sec. 3 M W F 6:10-7:25 —E. Thomas
V1102x Sec. 1 M W F 11:00-12:15 —J. Farr
V 1101y Sec. 1 M W F 11:00-12:15 —M. Henderson
V 1102y Sec. 1 M W F 11:00-12:15 —C. Franklin
Sec. 2 M W F 9:10-10:25 —S. Butler
Sec. 3 M W F 6:10-7:25 —E. Thomas

LAT V 1121x, y
Intensive Elementary Course
This course is designed to cover all of Latin grammar and syntax in one semester in order to prepare the student to enter third-semester Latin. —x: N. Finkelstein; y: J. Farr
4 points. M W F 11:00-12:15

LAT V 1201x, y
Latin Literature: Prose
Selections from Cicero or Sallust.
Prerequisite: V 1101-V 1102 or 2-3 years of high school Latin.
4 points. H
x: M W 1:10-2:25; F 1:10-2:00 —L. Lenaghan
y: M W 9:10-10:25, F 9:10-10:00 —N. Finkelstein

LAT V 1202x, y
Latin Literature: Poetry
Selections from Vergil, *Aeneid*, or Ovid, *Metamorphoses.*
Prerequisite: V 1101-V 1102 or 2-3 years high school Latin.
4 points. H
x: Sec. 1 M W 9:10-10:25; F 9:10-10:00 —L. Parri
y: Sec. 1 M W 1:10-2:25; F 1:10-2:00 —A. Cameron
Sec. 2 Tu Th 11:00-12:15, F 11:00-11:50 —J. Kang

LAT V 1221y
Intensive Intermediate Latin
Prerequisite: LAT V 1101-1102, or the equivalent.
4 points. Not offered in 1995-96. H

LAT V 3012x
Lyric Poetry
Selections from Catullus's polymetric poems and epigrams and from Horace's *Odes* and *Epodes*. The course combines literary analysis with work in grammar and metrics. —L. Lenaghan
Prerequisite: V 1201, 1202, or four years of high school Latin.
3 points. M W 2:40-3:55 H

LAT V 3033y
Medieval Literature
Survey of representative late Latin and medieval texts; readings from the Church Fathers, sacred and secular lyric, history, romance, satire, and biography; practice in paleography. —C. Franklin
Prerequisite: Three semesters of college Latin or permission of the instructor.
3 points. M W 1:10-2:25 H

LAT V 3309x
Selections from Latin Literature: Prose
Content of course changes from year to year; it may be taken for credit in consecutive years. Topic for 1995-96: Tacitus. Selections from the *Annals*. —A. Cameron
Prerequisite: V 3012 or the equivalent.
3 points. M W 10:35-11:50 H

LAT V 3310x
Selections from Latin Literature: Poetry
Content of course changes from year to year; it may be taken for credit in consecutive years. Topic for 1995-96: Vergil's *Aeneid*, with special emphasis on compositional technique, literary sources, political overtones, and the Augustan myth. —M. Petrini
Prerequisite: LAT V 3012 or the equivalent.
3 points. Tu Th 10:35-11:50 H

LAT W 4009y
Selections from Latin Literature: Prose
Content of course changes from year to year; it may be taken in consecutive years. Topic for 1995-96: Close reading of one or more of Cicero's speeches, with particular attention to their rhetorical technique and cultural context. —J. Rives
Prerequisite: LAT V 3012 or the equivalent.
3 points. Tu Th 2:40-3:55 H

LAT W 4010x
Selections from Latin Literature: Poetry
Content of course changes each year; it may be taken in consecutive years. Topic for 1995-96: Roman elegy. The development of the genre from Catullus to Ovid, concentrating on Propertius's erotic and aetiological poetry. —J. Zetzel
Prerequisite: LAT V 3012 or the equivalent.
3 points. Tu Th 1:10-2:25 H

LAT V 3996x
Major Seminar
Required for all majors in classics and classical studies. The topic will change from year to year but will always be broad enough to accommodate students in the languages as well as those in the interdisciplinary major. Topic for 1995-96: Epic. Readings in Greek, Latin, and English translation as appropriate, weekly presentation of short papers and discussion, one long paper. —M. Petrini
Prerequisite: junior standing.
4 points. Th 4:10-6:00

LAT V 3997x, y
Directed Reading
To be tested by a series of short papers, one long paper, or an oral or written examination. —Staff
Permission of the chairman of the department required.
3 points. Hours TBA.

LAT V 3998x, y
Supervised Research in Latin Literature
A program of research in Latin literature with the composition of a paper embodying results. —Staff
Permission of the chairman of the department required.
3 points. Hours TBA.

LAT W 4105x, 4106y
History of Latin Literature
Lectures based on extensive readings in Latin literature from the beginning to the fourth century C.E. —x: M. Petrini, y: J. Zetzel
Prerequisite: At least two terms of Latin beyond V 3012.
4 points. M W 4:10-6:00

LAT W 4139x
Elements of Latin Prose Style
Intensive review of Latin syntax. Writing of sentences and connected passages in Latin. —J. Rives
Prerequisite: At least four terms of Latin or the equivalent.
3 points. Tu Th 2:40-3:55

LAT W 4152x
Medieval Latin
Content of course changes from year to year: it may be taken in consecutive years. Topic for 1995-96: The early Middle Ages. Readings from early medieval Latin prose, with particular emphasis on Italy and Anglo-Saxon England. —C. Franklin
Prerequisite: Permission of the instructor.
3 points. M W 9:10-10:25 H

GRADUATE COURSES

Certain graduate courses given in the University are open to qualified majors with the consent of the chairman and the major adviser. The courses are described in the Bulletin of the Graduate School of Arts and Sciences.

MODERN GREEK LANGUAGE AND LITERATURE

MGR V 1101x-V 1102y
Elementary Full-Year Course

Introduction to modern Greek language and culture. Emphasis on both speaking and writing; basic grammar and syntax; cross-cultural analysis. —V. Yiakoumaki

No credit is given for V 1101 until V 1102 is completed. 4 points. M Tu W Th 9:10-9:50

MGR V 1201x
Intermediate Course, I

Emphasis on both speaking and writing; more complex grammar and syntax; a variety of readings including short selections from newspapers and contemporary literature. —V. Yiakoumaki

Prerequisite: MGR V 1101-V 1102 or the equivalent. 3 points. M W 10:35-11:50

MGR V 1202y
Intermediate Course, II

Emphasis on both speaking and writing; more complex syntax; a variety of readings including short selections from newspapers and contemporary literature. —V. Yiakoumaki

Prerequisite: MGR V1201 or permission of the instructor. 4 points. M W 4:10-6:00 *H*

MGR V 3320x
Stereotypes and Representation

3 points. Not offered in 1995-96. *H*

MGR V 3997x, 3998y
Independent Study

The course of study and amount of credits will be determined by the instructor in consultation with students. Independent study is designed for students writing a senior thesis or doing advanced research on Greek or Greek-American topics. —K. Van Dyck

1-4 points. Hours TBA. *H*

MGR V 3312y
Gender and Ideology in the Modern Greek Novel

Prerequisite: MGR V 1201 or V 1310 or the equivalent. 3 points. Not offered in 1995-96.

MGR V 3120y
The Social Function of the Short Story

Prerequisite: MGR V 1201 or V 1310 or the equivalent. 3 points. Not offered in 1995-96.

MGR V 3305x
Writing and Censorship

Prerequisite: MGR V 1201 or V 1310 or the equivalent. 3 points. Not offered in 1995-96.

MGR V 3306y
The Making of Modern Greek Poetry

An examination of modern Greek poetry from the perspective of canon formation, oral and written culture, and literature as a national institution. —K. Van Dyck

Prerequisite: MGR V 1201 or V 1310 or the equivalent. 3 points. Tu Th 10:35-11:50

MGR V 3310y
Myth, History and the Modern Greek Novel

Prerequisite: MGR V 1201 or V 1310 or the equivalent. 3 points. Not offered in 1995-96.

MGR V 3400x
Diaspora, Tradition, and the Greek-American Experience

Exploration of the Greek-American experience in personal memoirs, novels, poetry, travel literature, performance art, and films. Particular attention will be paid to how this literature by and about Greeks in America can provide alternative ways of thinking about diaspora and translation. Authors include Broumas, Kazan, Kulucundis, Gage, Selz, and Haviaras. —K. Van Dyck

4 points. Tu 2:10-4:00 *III H*

COMPARATIVE LITERATURE

226B Milbank Hall 854-4317

The program is supervised by the Committee on Comparative Literature.

Professors: Helene Foley (Classics, Co-chair), Richard F. Gustafson (Slavic, Co-chair), Marcia Welles (Spanish)

Associate Professors: Christopher Baswell (English), Irene Bloom (Asian and Middle Eastern Cultures)

Assistant Professors: Antonella Ansani (Italian), Sigrid Berka (German), Peter T. Connor (French), Catharine Nepomnyashchy (Slavic)

Advisory Board: Elizabeth Dalton (English), Serge Gavronsky (French), Maire Januus (English), Lydia Lenaghan (Classics), Mirella Servodidio (Spanish)

The program enables the student to pursue the study of at least two literatures in two different languages and to explore the possibilities and methods of literary study both historically and across national boundaries. In consultation with her adviser, the student will shape a program that will give her a firm foundation in her two central literatures and in one major period, genre, theme, or theoretical issue.

REQUIREMENTS FOR THE MAJOR

To enter the program a student must normally have completed the required sequence necessary for entry into the advance literature courses of her major program. This varies from language to language; students should consult the chair. Each student, after consultation with the chair, choses an adviser from one of her two literature departments. This adviser guides her in developing a sequence of courses appropriate for her goals in the major. All students are required to take Comparative Literature BC 3001 and 14 courses normally to be chosen from the following categories:

One course in appropriate classical texts chosen from The Classical Tradition (CLL W 4300), Introduction to the Hebrew Bible (REL V 3201), Introduction to the New Testament (REL V 3202), Asian Humanities (AHU V 3399 or V 3400), or other courses with approval of the adviser.

One course in literary theory, such as ENG BC 3194, FRE BC 3048 (x or y), CPLT C 3114, C 3415, LIT G 4002, 4003.

Three courses from **each of two** literary traditions studied in the original languages. Foreign literature courses must be beyond the introductory level.

Five elected courses in literature or literary theory (studied in the original or in translation) related to the student's individual program.

One course, either an appropriate seminar or a tutorial, for the writing of a senior thesis.

The Senior Thesis must deal with material from at least the two central literatures in the student's major. In addition this thesis must treat, at least in part, the one period, genre, theme, or theoretical issue that has shaped the student's program. The choice of topic for this senior essay and the appointment of a second adviser are determined in consultation with the area adviser and the chair of the program.

Students who wish to major in Comparative Literature, but who for valid reasons wish to pursue a program at variance with the above model, should consult the chair.

COURSES OF INSTRUCTION

CPL BC 3001y
Comparative Literature: Representation and Encounter

Introduction to the study of literature from a comparative and cross-disciplinary perspective. Readings will be selected to promote reflection on such topics as the relation of literature to the other arts; nationalism and literature; international literary movements; post-colonial literature; gender and literature; and issues of authorship, influence, originality, and intertextuality. —P. Connor
Prerequisite: Sophmore standing or the equivalent, or permission of the instructor.
3 points. M W 9:10-10:25 *I H*

CPL BC 3101y
The Myth of the Vampire *(In English)*

The history of the myth of vampirism and its significance for 20th-century Western culture. Focus on the discourses of imperialism, gender, race, and psychoanalysis. Attention to such issues as colonization, the "new woman," the news media, cross-dressing, and AIDS. Readings of literary and film texts by Homer, Goethe, Bram Stoker, Sheridan Lefanu, Murnau, Herzog, Freud, Anne Rice, Elfriede Jelinek, and others. —S. Berka
3 points. Hours TBA. *III H*

CPE BC 3158x
Medieval Literature

Readings center on the Arthurian tradition: English roots, French and English developments, and psychoanalytic, anthropological, and political approaches. —T. Szell
3 points. Tu Th 4:10-5:25 *I H*

CPE BC 3171y
The Culture of the Novel

Divergent forms of 19th-century novelization: the amorous, ethical, religious, social, and philosophical fictions. Focus on the Romantic-Realistic novel and its legacy. —M. Jaanus
3 points. M W 11:00-12:15 *I H*

CPE BC 3186x
Modern Drama

3 points. Not offered in 1995-96. *I H*

CPE BC 3187x
American Writers and Their Foreign Counterparts

Selected 19th- and 20th-century American, European, and English works. Flaubert, James, Proust, Gide, Faulkner, and others. —E. Dalton
3 points. M W 2:40-3:55 *I H*

CPE BC 3190y
Global Literature in English

The production of literary texts in English by a variety of people of different countries, races and cultures; the encounter of Western and non-Western heritages; the clash of legacies and ideologies; mutual revisions and reevaluations. —M. Jaanus, B. Stewart
3 points. M W 4:10-5:25 *I H*

CPE BC 3194x
Critical and Theoretical Perspectives on Literature

1. A History of Criticism
Not offered in 1995-96. *H*

2. Literary Theory
Not offered in 1995-96. *H*

3. Psychoanalytical Approaches to Literature
Not offered in 1995-96. *H*

4. Postmodern Texts and Theory
Literature and theoretical postmodern texts and their revolutionary redefinition of certain fundamental concepts: the image, the word, pleasure, love, and the unconscious. —M. Jaanus
3 points. M W 11:00-12:15 *H*

CPS BC 3204x
Literature of the Americas

Posits and seeks to answer the question: Do the Americans have a common literature? It juxtaposes texts from all over the hemisphere in order to compare their uses of themes and genres. Among the authors to be read are Sor Juana, Inez de la Cruz, Dickinson, Poe, Borges, Faulkner, Marquez, Hawthorne, and Fuentes. —A. Mac Adam
3 points. Tu Th 1:10-2:25 *I H*

CPS BC 3010y
Picaresque Narratives: The Discourse of Disorder *(in English)*

An investigation of the structures and ideology of the picaresque, with emphasis on the relationship between genre and gender, writing and authority. Readings include Petronius and Apuleius, the *Lazarillo de Tormes* and Francisco de Quevedo's *The Swindler*, Daniel Defoe's *Moll Flanders*, Kathy Acker's *Don Quixote*, and Isabel Allende's *Eva Luna*. —M. Welles
3 points. Tu Th 4:10-5:25 *III H*

HUM V 3003x, V 3004y
Modern Western Literature and Philosophy

Prerequisite: Grade of B or better in HUM C 1001-1002 or BC First-Year Seminar.
3 points. Not offered in 1995-96. *H*

COMPUTER SCIENCE

450 Computer Science Building 939-7000

University Professors Emeritus: Samuel Eilenberg, Theodore R. Bashkow

Professors: Alfred V. Aho (Chair), Theodore R. Bashkow (Emeritus), Zvi Galil, Jonathan L. Gross, Joseph F. Traub, Stephen H. Unger, Henryk Wozniakowski, Yechiam Yemini

Associate Professors: Peter K. Allen, Daniel J. Duchamp, Steven K. Feiner, Gail E. Kaiser, John R. Kender, Kathleen R. McKeown (Program Consultant), Shree Nayar, Salvatore J. Stolfo

Assistant Professors: Mukesh Dalal, Steven M. Nowick, Kenneth A. Ross

Lecturer: Athanasios M. Tsantilas

Adjunct Lecturers: David Bantz, Matthew Blaze, Ronald Mraz, Alexander Pasik, Mark Squillante, Michael K. van Biema, Arthur Werschulz, George Wolberg

Computer science is the study of how to communicate and transform information. Developments in the field over the past few decades have profoundly changed society, and this effect is likely to accelerate in the future. Information processing techniques are being applied increasingly in the fields of medicine, business, law, science, and finance. The goal of the theoretical side of computer science is to characterize the inherent complexity of computations, including the issue of what problems are solvable. The goal of the applied side of the field is to design cost-effective computer systems that are easy and pleasant to use, including the possibility of "intelligent" systems that mimic some aspects of human behavior.

The bachelor of arts degree in Computer Science encourages students to obtain broad exposure to the arts, humanities, and social sciences while at the same time providing them with the appropriate Computer Science background necessary for graduate study or a professional career. Computers have an impact on nearly all areas of human endeavor, so the department also offers several courses intended for students who plan a Computer Science major concentration.

The Computer Science major offers maximum flexibility by providing students with a range of options for specializing their degree programs. Students study a common core of fundamental topics, supplemented by a "track" that identifies specific areas for deeper study. The theory track prepares students for advanced work in fundamental theoretical and mathematical aspects of computing, including analysis of algorithms, scientific computing, and complexity of problems. The computer systems track prepares students for immediate employment in the computer industry as well as advanced study in such areas as software engineering, operating systems, programming languages, user interfaces, and computer architecture. The intelligent systems track provides specialization for students interested in artificial intelligence, natural language processing, computer vision, and robotics. A self-defined track is available to students who wish to pursue their own courses of study under the guidance of a faculty adviser. A student planning a self-defined track should be aware that one additional Computer Science course is required to complete this option.

Academic computing needs are met by University computing facilities, which include a variety of networked workstations, such as SUN, HP, and NeXT machines. Students can also work in a PC or MAC environment. Qualified majors often serve as consultants at the Computer Center.

In addition to taking traditional classes, students sometimes assist faculty members on research projects, opting for either independent study or a senior thesis.

The department has well-equipped lab areas for research in robotics, computer vision, distributed and mobile computing, computer graphics, natural language processing, programming environments, and parallel architectures. Departmental facilities include numerous SUN 4 servers, SUN, HP, Digital, IBM, and NeXT workstations, and HP parallel cluster, plus state-

of-the-art experimental equipment. Specialized equipment includes various robotic arms, an UTAH-MIT dextrous hand, an Aspex PIPE (an 8-stage parallel pipeline, low-level image processor), Turbo VRX, HP CRX48Z, and SGI Indigo2 Extreme 3D graphics workstations with true 3D input (via a Cricket) and a StereoGraphics stereo display system, a locally built see-through head-mounted display, a high-resolution color scanner, and experimental packet-radio-based workstations. The department network is gatewayed to a campus-wide backbone network as well as to Internet and USENET. Their research facility is supported by a full-time staff of professional systems programmers and engineers, aided by many part-time student technicians.

There are several different introductory courses in computer programming. Students may elect only one of them for degree credit. First-year students considering a Computer Science major should take W 1007. By taking an introductory course early in their college years, non-majors are able to use the computers more effectively in their upper-level studies in other departments.

The primary programming languages for the undergraduate majors is C. This is taught in CS-W1007 and is heavily used thereafter. LISP is used for many courses in the Intelligent Systems track.

NOTE: Students majoring or minoring in Computer Science should take Computer Science W 1007 and W 3139, rather than Computer Science W 1003 and W 3131. Students who have taken Computer Science W 1003 before Autumn 1989 or W 3131 before Autumn 1990 may still count these other courses toward a major or minor, or use them to satisfy the prerequisites of advanced courses.

REQUIREMENTS FOR THE MAJOR

Students who plan to major in Computer Science should see a Program Consultant by the start of the sophomore year.

Courses: 40 or 43 points. Required CSC courses, 19 points: CSC W 1007, CSC W 3203, CSC W 3139, CSC W 3156, CSC W 3261, CSC W 3824. Required mathematics course, 3 points: one semester of calculus. Each student must also fulfill the track elective requirement by selecting either a 12-point "area track" or the 15-point "self-defined track" option. Supplemental elective requirement, 6 points: any 6 points chosen from CSC W 3823, W 3902, W 3998, or numbered 4000-level or higher, beyond the track selection.

Theory Track, 12 points: for students interested in theoretical aspects of computer science, including algorithmic analysis, problem complexity, and computational modeling: the three courses CSC W 4231, CSC W 4236, and either CSC W 4203 or W 4205.

Computer Systems Track, 12 points: for students interested in the design and implementation of software and/or hardware systems: four CSC courses numbered CSC W 41xx, W 38xx, or W 48xx, at least one of which is CSC W 41xx and at least one of which is either CSC W 38xx or CSC W 48xx. (CSC/Phil W 4801 and CSC/Phil W 4802 are not acceptable in this track.)

Intelligent Systems Track, 12 points: for students interested in the design and implementation of systems that are capable of modifying their own behavior or of providing a human-like interface: either four of the courses (several of these will be offered each year) (CSC W 4701, W 4705, W 4721, W 4725, W 4731, W 4733, W 4771) or three of those courses and one additional course from among CSC W 4111, W 4160, W 4999: *Computing and the Humanities*, CSC W4165, and W4501.

N.B. Occasionally a section of CSC W 4995 and/or W 4996 will qualify as a substitute within a track, if the relevant track adviser approves.

Self-Defined Program Option, 15 points: any 15 points chosen from CSC W 3823 or those numbered at the 4000-level (except CSC W 4901), for which the student is able to obtain the support of a CSC faculty member willing to serve as that student's program sponsor

and adviser. Finding such a sponsor/adviser is the responsibilty of the student.

N.B. A second semester of calculus is prerequisite to some courses in some of the tracks. It is also a typical admissions requirement for graduate degree programs in Computer Science and for some forms of professional education, including but not limited to medicine and business.

REQUIREMENTS FOR THE MINOR

Courses: 22 points. Required CSC courses, 19 points: CSC W 1007, CSC W 3203, CSC W 3139, CSC W 3156, CSC W 3261, and CSC W 3824; plus any 3 points chosen from CSC W 3823, CSC W 3902, CSC W 3998, or numbered 4000-level or higher.

COURSES OF INSTRUCTION

CSC W 1001x, y
Introduction to Computers
An introductory course in computer science intended primarily for non-majors and targeted at humanities students. Use of computers for communications and for problem solving. Work is grounded in humanities applications, demonstrating how computers can be used for subjects as diverse as literature, foreign language, history, math, and science. Topics include the Internet, use of existing tools for problem solving, and programming, starting from a problem or task and arriving at a program which provides a solution. Taught in the Scheme dialect of LISP. —Instructor TBA.
3 points. Hours TBA.

CSC W 1007x, y
Introduction to Computer Science
An honors-level introduction to computing, intended primarily for students considering a major in computer science. The structure and interpretation of computer programs. Building abstractions with data and procedures. Taught in C. —Instructor TBA.
3 points. Tu Th 2:40-3:55

CSC W 3156x, y
Introduction to Software Engineering
Software management, requirements analysis, human factors, functional specification, software architecture, design methods, programming for reliability and maintainability, team programming, testing methods, and configuration management, with special topics as time permits. Intensive introduction to selected UNIX tools; a substantial group programming project is required. —G. Kaiser
Prerequisite: CSC W 3139.
3 points. Hours TBA.

CSC W 3823x, y
Digital Logic
Number representation, Boolean algebra, combinational logic, Karnaugh maps, circuit minimization, NAND and NOR logic, fault detection, implementation of gates, integrated circuits, flip-flops, latches, counters and other basic functional circuits, sequential circuits, clocking. —S. Unger
Prerequisite: Any introductory programming course.
3 points. Hours TBA.

CSC W 3824x, y
Computer Organization I
Overview of computer organization, register transfer sequences, micro-operations, control functions, instruction codes, bus organization, ALUs, interrupts, memory, pipelining, I/O. —Instructor TBA.
Prerequisite: CSC W 3823.
3 points. Hours TBA.

CSC W 4705x, y
Natural Language Processing
An introduction to the artificial intelligence approach to human language processing. Topics such as conceptual representation, story understanding, language generation, question answering, and the relation between computer models and cognitive psychology. Computer exercises in several of these areas. Some prior or concurrent exposure to AI and LISP is recommended. —K. McKeown
Prerequisite: CSC W 3139.
3 points. Hours TBA.

CSC W 4861x, y
Computer-Aided Design of Digital Systems
Introduction to modern CAD tools, algorithms, and applications. Topics include: exact and heuristic 2-level logic minimization, multilevel logic optimization, Boolean manipulation, unate and binate covering algorithms, the unate recursive paradigm, sequential optimization, binary decision diagrams (BDDs), and cell library binding. —S. Nowick
Prerequisite: CSC W 3823 and W 3139 (W 3131) or permission of the instructor. CSC W 3261 recommended but not required.
3 points. Hours TBA.

CSC W 4999y
Computing for the Humanities
Examines computer science problems in humanities applications such as literary computing, on-line texts, history, and legal applications. Topics include use of on-line resources available over the Internet, such as WAIS and MOSAIC; problems for digital libraries, such as indexing and retrieval; computational literary analysis, such as statistical studies of authorship and style; use of on-line databases, such as Lexis/Nexis, dictionaries and historical databases; general purpose applications, such as spreadsheets; and other related topics, such as computer-aided language learning, CGI programming, and legal reasoning. Assignments include both written assignments and problem solving via tools. This course is intended primarily for undergraduates. —Instructor TBA.
3 points. M W 4:10-5:25.

CSC W 3902x, y
Undergraduate Thesis
An independent theoretical or experimental investigation by a BS or BA candidate of an appropriate problem in computer science carried out under the supervision of a faculty member. A formal written report is mandatory and an oral presentation may also be required. May be taken over more than one semester, in which case the grade will be deferred until all 6 points have been completed.
Permission of the instructor required.
Prerequisite: Agreement by a faculty member to serve as thesis adviser.
6 points. Consult the department for section assignment.

DANCE

204 Barnard Hall Annex 854-2995

Professor: Sandra Genter (Chair)

Senior Lecturer: Janet Mansfield Soares

Assistant Professor: Ellen Graff

Senior Associate: Janis Ansley-Ungar

Adjunct Professor: Deborah Jowitt

Associates: Mary Lisa Burns, Donlin Foreman, Katiti King, Elena Kunikova, Gloria Marina, Kraig Patterson, Neta Pulvermacher

Technical Director for Dance: Rhonda Rubinson

The Barnard Dance Department seeks to develop technical versatility in dance performance, skill and originality in choreography, and critical understanding of the art of dance as a part of history and culture. Emphasis is placed on performing opportunities in ballet and modern idioms each semester, and on the encouragement of each student's growth as a creative artist.

Studios and theaters in New York City provide Barnard students opportunities to study and view an array of dance, while major libraries and dance institutions offer rich possibilities for research. The Dance Department regularly invites guest artists to teach and choreograph throughout the year.

All dance courses except Senior Seminar are open to students who meet the prerequisites. Barnard College Dance Department is an accredited institutional member of the National Association of Schools of Dance.

Students contemplating a dance major should consult with a member of the department in their first year. Declaration of the major requires departmental approval.

REQUIREMENTS FOR THE MAJOR

A minimum of 13 courses are required for the dance major. In addition, majors normally take two technique courses per semester. A Senior Major Project must be completed either in a research thesis or a performance in dance under the supervision of a chosen department adviser.

I. Nine required courses must include:

DAN BC 2561	*Kinesiology*
DAN BC 2562	*Movement Analysis*
DAN BC 2563	*Dance Composition: Form*
DAN BC 2564	*Dance Composition: Content*
DAN BC 2565	*History of Dance I: Multicultural Perspectives*
DAN BC 2566	*History of Dance II: Renaissance to the Present*
DAN BC 3571	*Performance Styles*
DAN BC 3572	*Repertory in Production*
DAN BC 3591	*Senior Seminar for Dance*

II. Two courses elected from the following:

DAN BC 2555	*Ensemble Dance Repertory*
DAN BC 2567	*Fundamentals of Music for Dancers*
DAN BC 3576	*Dance Criticism*
DAN BC 3574	*Seminar on Contemporary Choreographers and Their Works*
DAN BC 3577	*Performing the Political*

III. Two non-department courses to be elected in pursuit of the historical and cultural contexts of dance which will fulfill both the major and distribution requirements. Courses in philosophy of art, cultural history, art, music and theater history, anthropology, and religion may be chosen with permission of department chair. One of these will fulfill distribution as well as major requirements. ARS BC 3031 *Imagery and Form in the Arts* is highly recommended.

IV. A minimum of six points of dance technique courses.

REQUIREMENTS FOR THE MINOR

Six courses constitute a minor in Dance. Normally, three history/criticism and three credit-bearing performance/choreography courses are taken. Courses are to be selected on the basis of consultation with the department chair.

COURSES OF INSTRUCTION

DAN BC 2561x
Kinesiology
Focus on physical sciences that relate to human movement, with an emphasis on functional anatomy. Topics include skeletal structure, physics of dance, muscular balance, and improving movement potential. —S. Genter
3 points. Tu Th 10:35-11:50

DAN BC 2562y
Movement Analysis
Study of the nature of human movement concentrating on the basic elements of space, time, and body dynamics through readings, viewings, experimentation, and discussion. Learning descriptive movement language and analytical skill from the concepts of Rudolph Laban and other movement theorists. Includes written and performance projects. —S. Genter
3 points. Tu Th 1:10-2:25

DAN BC 3571y
Performance Styles
The study of solo excerpts from classical and modern repertory and the presentation of individual research in both written and performance format. Emphasis will be placed on the role that the dancer must play to facilitate the realization of the choreographer's concept. —J. Soares
3 points. M W 2:40-3:55

DAN BC 3572y
Repertory in Production
The relationship of dance repertory and production. The rigorous study of the visual elements of dance design through aesthetic and critical evaluation of scenographic techniques as they relate to specific dance repertory works. —R. Rubinson
3 points. F 10:00-12:00 plus hours TBA.

DAN BC 2555x
Ensemble Dance Repertory (Ballet)
The study and performance of choreography using three approaches: learning excerpts from the repertoire of selected choreographers, analyzing through reconstruction classic repertory works, and understanding the choreographic process by working in a creation from initial concept to finished dance. This semester's study will be devoted to ballet repertory. —E. Kunikova
Prerequisite: Permission of instructor.
3 points. Tu Th 4:10-5:25

DAN BC 2563x
Dance Composition: Form
The study of choreography as a creative art. The development and organization of movement materials according to formal principles of composition in solo and duet forms. Applicable to all styles of dance. —Instructor TBA.
3 points. M W 4:10-5:25

DAN BC 2564y
Dance Composition: Content
Continued study of choreography as a communicative performing art. This semester of dance making focuses on the exploration of ideas and meaning. Emphasis is placed on the development of personal style as an expressive medium, and on unity of style in each work. Group as well as solo compositions will be assigned. —J. Soares
3 points. M W 1:10-2:25

DAN BC 2565x
History of Dance I: Multicultural Perspectives
Investigates the multicultural perspectives of dance in major areas of culture in the world to include African, Asian, Hispanic, Indian, and Mideastern dance, as well as dance history of the

Americas, through reading, writing, viewing, and discussion of a wide range of resources, such as films, original documents, demonstrations, and performances. —E. Graff
3 points. Tu Th 1:10-2:25 *II H*

DAN BC 2566y
History of Dance II: Renaissance to the Present
Focuses on the history of theatre dance forms originating in Europe and America from the Renaissance to the present. Includes reading, writing, viewing, and discussion of sources such as film, text, original documentation, demonstration and performance. —S. Genter
3 points. Tu Th 10:35-11:50 *III H*

DAN BC 2567y
Fundamentals of Music for Dancers
3 points. Not offered in 1995-96.

DAN BC 3099x, y
Independent Study —Staff
1-4 points.

DAN BC 3574x
Seminar on Contemporary Choreographers and Their Works
Choreographic methods, structures, themes, and vocabulary will be examined in seminar discussions. Sources include assigned readings, film/video, and interviews with guest artists. Students must attend live performances, write short analytical papers, and present a final research project. —S. Genter
Permission of the instructor required.
3 points.Tu Th 2:40-3:55

DAN BC 3576y
Dance Criticism
Intensive practice in writing about dance. Readings drawn from 19th- and 20th-century criticism. Observation includes weekly performances and classroom videotape sessions. —D. Jowitt
Prerequisite: Writing samples must be submitted by Dec. 1 and accepted.
3 points. M 4:00-6:00

DAN BC 3577y
Performing the Political: Embodying Change in 20th-Century American Performance
3 points. Not offered in 1995-96. *III H*

DAN BC 3590y
Rehearsal and Performance in Dance
Students take part in the full production of a dance as performers, choreographers, designers, or stage technicians. Appropriate research, reading, and writing are required in addition to artistic assignments. Production requirements and rehearsal schedules will be posted at the start of each production. —J. Soares, staff, and guest choreographers.
Prerequisite: Audition. Permission of instructor required. Subject to cap on studio credit. Can be taken more than once for credit up to a maximum of 3 credits a semester. Will be graded. Students not wishing to take this for credit may participate fully in departmental productions with permission of the instructor.
1-3 points. Hours TBA.

DAN BC 3591x
Senior Seminar in Dance
Research and scholarly writing in chosen topics relating to dance. Methods of investigation will be drawn from prominent archival collections and personal interviews, as well as other resources. Papers will be formally presented to the Dance Department upon completion. —E. Graff
4 points. F 12:00-2:00

BC 3592x, y
Senior Project: Research for Dance
Independent study for research and writing (35-50-page thesis required). —Staff
3 points. Hours TBA.

BC 3593x, y
Senior Project: Repertory for Dance
Independent study for preparing and performing repertory works in production to be presented in concert. —Staff
3 points. Hours TBA.

DANCE TECHNIQUE COURSES

Level I courses, except for Dance Styles courses, receive a P/D/F and have no prerequisite. All others will receive a letter grade and require a placement audition (at the first meeting) or permission of the instructor. All courses listed below may be taken for 0 credit to fulfill the physical education requirement. One-point dance technique courses **taken by non-dance majors** for credit over and above the physical education requirement are included in the existing maximum of 18 points of studio, performing art, or professional school courses which may be credited toward the degree; a maximum of six courses in dance technique can be credited. A student who takes more than two one-point dance technique courses for credit beyond the physical education requirement is required to validate the third and fourth dance technique courses in each of the two semesters with a concurrent course offered by the Dance Department which does not contain a technique component.

Modern Dance

The study of contemporary dance based on the work of 20th-century innovators, including Cunningham, Graham, Humphrey, Limón, and others. Aesthetic principles of modern dance will be taught with increased technical demands required in each successive level.

DAN BC 1329x
Fundamentals of Dance Movement
1 point. Not offered in 1995-96.

DAN BC 1330x, 1331y
Modern I: Beginning Modern Dance
1 point. x: Sec. 1 *M W* 2:40-3:55 —N. Pulvermacher
y: Sec. 1 *M W* 1:10-2:25 —N. Pulvermacher
Sec. 2 *Tu Th 9:10-10:25* —TBA

DAN BC 1332x, 1333y
Modern II:
Advanced Beginning Modern Dance
1 point. x: Tu Th 10:35-11:50 —E. Graff
y: M W 2:40-3:55 —N. Pulvermacher

DAN BC 2332x, 2333y
Modern III: Intermediate Modern Dance
1 point. x: M W 9:10-10:25 —K. Patterson
y: Tu Th 1:10-2:25 —TBA

DAN BC 2334x, 2335y
Modern IV: High Intermediate Modern Dance
1 point. x: Tu Th 4:10-5:25 —TBA
y: M W 9:10-10:25 —K. Patterson

DAN BC 3332x, y
Modern V: Advanced Modern Dance
1 point. x: M W 10:35-11:50 —D. Foreman
y: M W 4:10-5:25 —M. Burns

DAN BC 3336y
Modern VI: High Advanced Modern Dance
—Instructor TBA
1 point. M W 10:35-11:50

DAN BC 3334y
Improvisation
—S. Genter
1 point. Not offered in 1995-96.

Ballet

Technique of classical ballet emphasizing proper alignment and graduated study of its vocabulary. Artistry of articulation, phrasing, dynamics, and nuance in the spectrum of classical materials will be addressed at each level.

DAN BC 1135x, y
Ballet I: Beginning Ballet
1 point.
x: Sec. 1 M W 10:35-11:50 —J. Ansley-Ungar
Sec. 2 M W 5:40-7:00 —TBA
y: Sec. 1 Tu Th 10:35-11:50 —J. Ansley-Ungar

DAN BC 1137x, 1138y
Ballet II: Advanced Beginning Ballet
1 point. x: Tu Th 1:10-2:25 —TBA
y: M W 10:35-11:50 —J. Soares

DAN BC 1553y
Ballet Technique and Theory
2 points. Not offered in 1995-96.

DAN BC 2137x
Ballet III: Intermediate Ballet
1 point. x: M W 9:10-10:25 —J. Ansley-Ungar
y: Tu Th 9:10-10:25 —J. Ansley-Ungar

DAN BC 2139x, 2140y
Ballet IV: High Intermediate Ballet
1 point. x: Tu Th 2:40-3:55 —E. Kunikova
y: M W 9:10-10:25 —TBA

DAN BC 3138x, 3139y
Ballet V: Advanced Ballet
1 point. x: M W 2:40-3:55 —TBA
y: Not offered.

DAN BC 3141y
Ballet VI: Advanced Ballet and Pointe
—E. Kunikova
1 point. Tu Th 2:40-3:55

DAN BC 3142x, y
Classic Variations
Prerequisite/corequisite: DAN BC 3138x, BC 3139y, or BC 3141y.
1 point. x: Not offered.
y: Tu Th 4:10-5:25 —E. Kunikova

DANCE STYLES

The study of indigenous dance forms including character, classical Spanish, jazz, musical theatre, and tap.

DAN BC 1247x
Jazz I: Beginning Jazz Dance
—K. King
Prerequisite: DAN BC 1137x, BC 1138y, BC 1332x, or BC 1333y, or permission of the Dance Department. Intermediate level in modern or ballet technique is required.
1 point. M W 1:10-2:25

DAN BC 2248x, y
Jazz II: Intermediate Jazz Dance
—K. King
Prerequisite: DAN BC 1247 or permission of the Dance Department.

1 point. x: Not offered.
y: Tu Th 2:40-3:55

DAN BC 3249y
Jazz III: Advanced Jazz Dance
—K. King
Prerequisite: DAN BC 2248x, y
1 point. Not offered in 1995-96.

DAN BC 1446y
Tap I: Beginning Tap Dance
—J. Ansley-Ungar
Prerequisites: DAN BC 1137x, BC 1138y, BC 1332x, or BC 1333y, or permission of the Dance Department. Intermediate level in modern or ballet technique is required.
1 point. Not offered in 1995-96.

DAN BC 2447x, y
Tap Dance II: Intermediate Tap
Prerequisites: DAN BC 1446x, y or permission of the Dance Department.
1 point. Not offered in 1995-96.

DAN BC 2140x, y
Musical Theatre Dance
Prerequisites: DAN BC 1137x, BC 1138y, BC 1332x, or BC 1333y, or permission of the Dance Department. Intermediate level in modern or ballet technique is required.
1 point. Not offered in 1995-96.

DAN BC 2141x, y
Character Dance
Prerequisites: DAN BC 1137x, BC 1138y, BC 1332x, or BC 1333y, or permission of the Dance Department. Intermediate level in modern or ballet technique is required.
1 point. Not offered in 1995-96.

DAN BC 3250x
Classical Spanish Dance I
—G. Marina
Prerequisites: DAN BC 1137x, BC 1138y, BC 1332x, or BC 1333y, or permission of the Dance Department. Intermediate level in modern or ballet technique is required.
1 point. M W 4:10-5:25

DAN BC 3353y
Classical Spanish Dance II
—G. Marina
Prerequisites: DAN BC 3250x, y, or permission of the Dance Department.
1 point. M W 4:10-5:25

ECONOMICS

4A Lehman Hall 854-3454

Professors: André Burgstaller (Chair), Duncan Foley[1], Deborah Milenkovitch[1]

Associate Professor: Cecilia Conrad[1]

Assistant Professors: Linda Barrington[2], Alan Dye, Elizabeth Katz[3], Perry Mehrling, Rajiv Sethi

Visiting Assistant Professors: Lalilth Munasinghe, Ajay Mahal

Other officers of the University offering courses listed below:

Professors: Padma Desai, Prajit Dutta, Phoebus Dhrymes, Richard Ericson, Kelvin Lancaster, Robert Mundell, Joe Tracy

Associate Professor: Christopher Cavanagh

Assistant Professors: Joy Choi, Phillip Jefferson, Matthew Kahn, John McLaren, Katherine Morgan

Adjunct Professors: Andrew Abere, Carol Osler, Vahid Nowshirvani, Carl Riskin, Lewis Schier

[1]Absent on leave 1995-96

[2]Absent on leave Autumn term

[2]Absent on leave Spring term

The Department of Economics offers a broad course of study in economic theory and applied economics. The study of economics is an important foundation for a student's general understanding of modern history and society. Barnard's major programs in economics also prepare students for graduate work in economics, business, law, public administration, and international relations and related fields, as well as for careers in business, finance, and government. The aims of the programs are: (i) to foster a critical understanding of economics and its relation to other disciplines; (ii) to develop students' mastery of modern economic theory and its tools of analysis.

Students planning to major in economics or political economy should complete both intermediate macro- and microeconomic theory by the beginning of their junior year. Before they are allowed to register for the senior essay, students must have completed all of their required courses for the major, as well as those of their upper-level electives with intermediate micro- or macroeconomic theory as a prerequisite and, for Political Economy track majors, the upper-level political science course.

Students with a score of 4 or 5 on the Advanced Placement Examination in either macroeconomics or microeconomics will receive a total of three points of credit.

REQUIREMENTS FOR THE MAJOR

There are two tracks for the major in economics equal in the number of courses required, but different in scope and focus. The track in Economics teaches students the theory and the analytical and mathematical tools now expected of entering graduate students in economics and useful for graduate study in related fields such as business. The track in Political Economy emphasizes the roots of modern economics in the history of economic thought and the interconnections between social forces, political institutions, and economic power. This track constitutes an excellent preparation for a variety of professional schools and careers.

Prospective majors should discuss their programs with any member of the department no later than the second semester of their sophomore year. At the time of declaring the major, the student also chooses a major adviser, who will advise her as to choice of program and courses, and help in the choice of a senior essay topic and adviser.

Students who wish to complete a double or joint major that includes economics should consult the chairman of the department as early in their planning as possible.

Economics

The Economics track major requires one semester of calculus—a second semester is strongly recommended— and nine courses in economics including:

ECO BC 3033	*Intermediate Macroeconomic Theory*
ECO BC 3035	*Intermediate Microeconomic Theory*
ECO BC 3041	*Theoretical Foundations of Political Economy*
ECO BC 3018	*Econometrics;*

one of the following:

ECO BC 2411	*Statistics for Economics*
STA W 1111	*Introduction to Statistics*
STA W 1001	*Introduction to Statistical Reasoning;*

two electives with intermediate micro- or macroeconomic theory as a prerequisite; and

ECO BC 3061-3062	*Senior Research Seminar.*

Political Economy

The Political Economy track major requires 11 courses, including:

ECO BC 3033	*Intermediate Macroeconomic Theory*
ECO BC 3035	*Intermediate Microeconomic Theory*
ECO BC 3041	*Theoretical Foundations of Political Economy;*

three electives with intermediate micro- or macroeconomic theory as a prerequisite;

two electives in economics (excluding introductory economics) or a related discipline; one upper-level course in political science*; and

ECO BC 3061-3062	*Senior Research Seminar.*

*The following political science courses are not considered upper level:

BC 3001	*Dynamics of American Politics;*
V 3505	*Introduction to Comparative Politics;*
V 3611	*International Politics;*
BC 3013	*Political Theory.*

Both Economics and Political Economy track majors must file the "Major Requirements Declaration" form—available from the department office—no later than at registration for the first semester of their senior year. This form must be approved by the chair before a student will be allowed to register for the senior thesis, BC 3061-3062.

We recommend that all Political Economy track majors — especially those majors who plan to go on to business school or to graduate school in public administration or international relations — take one semester of college-credit math (either pre-calculus or calculus) and Economics BC 2411. Political Economy track majors who plan to go on to graduate school Ph.D. programs in economics should take two years of mathematics, including one year of calculus and statistics and econometrics.

Mathematics Training for the Major

The department expects *all* majors to have a working knowledge of arithmetic, high-school algebra, and the fundamentals of analytic geometry.

REQUIREMENTS FOR THE MINOR

The minor in economics requires five courses, including an introductory course in economics, BC 3033 or BC 3035, and three electives, one of which has an intermediate micro- or macroeconomic theory course as a prerequisite.

COURSES OF INSTRUCTION

INTRODUCTORY COURSES

The principles of economics and statistics; may be taken without previous study of economics or statistics.

ECO BC 1001x, y
Introduction to Economics

Basic concepts of economic analysis, with emphasis on the aggregate economy; essentials of supply and demand, national income and its determination, United States economic institutions, fiscal and monetary policy, international economics, economic growth and inequality, problems of developing nations. (Macroeconomic Principles.)
—x: P. Mehrling; y: A. Mahal
Credit cannot be granted for both BC 1001 and W 1105.
3 points. x: Tu Th 10:35-11:50
y: Tu Th 1:10-2:25 *III S*

ECO BC 1002x, y
Introduction to Economics

Basic concepts of economic analysis, with emphasis on resource allocation: utility and demand, cost and supply, determination of prices and income distribution through demand and supply, market structures, and alternative economic systems. (Microeconomic Principles.)
—x: A. Dye; y: L. Munasinghe
BC 1001 is not a prerequisite for BC 1002. Credit cannot be granted for both BC 1002 and W 1105.
3 points. x: Tu Th 9:10-10:25
y: M W 4:10-5:25 *S*

ECO BC 2035y
Microeconomic Policy Analysis

Introduction to microeconomics theory and cost/benefit analysis through case studies. Specific cases studied may vary from year to year but will always include at least one case from each of the following three subject areas: (1) environmental policy, (2) tax policy and income redistribution, and (3) urban economic development.
3 points. Not offered in 1995-96. *S*

ECO BC 2411x
Statistics for Economics

Elementary computational methods in statistics. Basic techniques in regression analysis of econometric models. One-hour weekly recitation sessions to complement lectures. —L. Munasinghe
4 points. M W 1:10-2:25 *S*

ECO BC 2412x, y
Empirical Methods for Economics
1 point. Not offered in 1995-96.

GENERAL COURSES

The study of history and of contemporary society in an economic perspective; institutional and traditional approaches.
These courses may be taken without previous study of economics.

ECO BC 2010y
Sex, Discrimination, and the Division of Labor

An introduction to the role of women in the economy, including the productive uses of women's labor in the labor market, housework, and childbearing; role of government and unions in structuring women's options; and some international comparisons. —Instructor TBA.
3 points. Hours TBA. *I S*

ECO BC 2013y
Economic History of the United States

Economic transformation of the United States from the colonial period to the present.
—L. Barrington
3 points. M W 2:40-3:55 *III S*

ECO BC 2014x
Topics in Economic History: The Economic History of Latin America and the Caribbean

Many of the current economic crises in Latin America and the Caribbean have deep roots in history. This course examines the economic history of Latin America and the Caribbean from the colonial period up to World War II, keeping an eye on continuing economic and social problems. Focuses on the integration of Latin America and the Caribbean into the modern world economy. Topics of discussion will include comparative analyses of economic development of North America, Latin America and the Caribbean; and the roles of slavery, migrant labor and foreign capital as well as internal factors in long-term economic growth. —A. Dye
3 points. Tu Th 1:10-2:25 *III S*

ECO BC 2024x
Women in International Development

An exploration of the critical issues related to Third World women as they have emerged over the past decade: the effects of development on poor urban and rural women. —E. Katz
3 points. Tu Th 2:40-3:55 *I S*

ECO BC 2025x
World Economy
3 points. Not offered in 1995-96.

ECO BC 2026y
Modern Capitalism
3 points. Not offered in 1995-96. *S*

UPPER-LEVEL REQUIRED COURSES

The courses and seminars listed below, required of Political Economy and/or Economics track students, constitute the core of the Barnard economics major.

ECO BC 3018y
Econometrics
Specification, estimation, and evaluation of economic relationships using economic theory, data and statistical inference; testable implications of economic theories; econometric analysis of topics such as consumption, investment, wages and employment, and financial markets. —L. Munasinghe
Prerequisites: BC 3035 or BC 3033, and BC 2411 or STA W 1111 or STA W 1001, or permission of the instructor.
4 points. M W 1:10-2:25 *S*

ECO BC 3033x, y
Intermediate Macroeconomic Theory
Systematic exposition of current macroeconomic theories of unemployment, inflation and international financial adjustments. Weekly recitation section to complement lectures.
Prerequisites: An introductory course in economics and a functioning knowledge of high school algebra and analytical geometry or permission of the instructor.
4 points. *S*
Primarily for majors in the Economics track:
x: Tu Th 1:10-2:25 —P. Mehrling
Primarily for majors in the Political Economy track:
y: Tu Th 9:10-10:25 —A. Mahal

ECO BC 3035x, y
Intermediate Microeconomic Theory
Preferences and demand; production, cost and supply; behavior of markets in partial equilibrium; resource allocation in general equilibrium; pricing of goods and services under alternative market structures; implications of individual decision-making for labor supply; income distribution, welfare, and public policy. Emphasis on problem solving. Weekly recitation section to complement lectures.
4 points.
Prerequisites: An introductory course in economics and a functioning knowledge of high school algebra and analytical geometry, or permission of the instructor. This section is primarily for students in the Political Economy track.
x: Tu Th 9:10-10:25 —A. Mahal *S*
Prerequisites: An introductory course in economics or permission of the instructor, and 1 semester of calculus. This section is primarily for students in the Economics track.
y: Tu Th 1:10-2:25 —R. Sethi *S*

ECO BC 3041x, y
Theoretical Foundations of Political Economy
Intellectual origins of the main schools of thought in political economy. Study of the founding texts in classical political economy, Marxian economics, neo-classicism, and Keynesianism.
Prerequisite: An introductory course in economics or permission of the instructor.
3 points.
x: Tu Th 4:10-5:25 —A. Burgstaller *III S*
y: Tu Th 2:40-3:55 —R. Sethi

ECO BC 3061x, 3062y
Senior Research Seminar
Tutorials and conferences on the research for and writing of the senior essay. —Staff
Prerequisites: The completion of all courses required for the major, of those elective courses with BC 3033 or BC 3035 as prerequisites, and (for Political Economy track majors) of the upper-level political science course; exceptions may be granted by the chair of the department only. See the department office for application forms.
4 points. x: W 4:10-6:00
y: Hours TBA.

UPPER-LEVEL ELECTIVE COURSES

ECO BC 3011y
Poverty and Income Distribution
Prerequisite: BC 3035 or BC 3033, or permission of the instructor.
3 points. Not offered in 1995-96. *S*

ECO BC 3016x
Spending, Deficits and Taxes
Principles of government expenditure and taxation; alternative theoretical perspectives on government's role in a "mixed economy"; structure of U.S. tax system, with emphasis on tax incidence, the effect of taxes on economic behavior, and detailed analysis of selected policy issues. —A. Mahal
Prerequisite: BC 3035 or BC 3033 or permission of the instructor.
3 points. Tu Th 1:10-2:25 *S*

ECO BC 3019x
Labor Economics
Factors affecting the allocation and remuneration of labor; population structure; unionization and monopsony; education and training, mobility and information; sex and race discrimination; unemployment; and public policy. —L. Munasinghe
Prerequisite: BC 3035, or permission of the instructor.
3 points. M W 4:10-5:25 *S*

ECO BC 3021y
The Regulation of Industry
Prerequisite: BC 3035.
3 points. Not offered in 1995-96. S

ECO BC 3029x
The Economics of Underdeveloped Areas
Theories of economic underdevelopment and development; selected problems in trade, foreign investment, technological change, industrialization, agriculture, and state policy. —E. Katz
Prerequisite: BC 3035 or BC 3033, or permission of the instructor.
3 points. Tu Th 10:35-11:50 I S

ECO BC 3030y
Comparative Economic Systems
Prerequisite: BC 3035 or permission of the instructor.
3 points. Not offered in 1995-96. I S

ECO BC 3036y
Financial Markets
Institutional nature and economic function of financial markets. Emphasis on both domestic and international markets (debt, stock, foreign exchange, eurobond, eurocurrency, futures, options, and other). Principles of security pricing and portfolio management; the Capital Asset Pricing Model and the Efficient Markets Hypothesis; macroeconomic factors and asset returns. —P. Mehrling
Prerequisites: BC 3033 or BC 3035 and BC 2411, STA W 1111 or STA W 1001.
3 points. Hours TBA. S

ECO BC 3037y
Growth and Distribution
Classical theories of growth and distribution and their modern transformations; the dynamic effects of changes in technology, savings behavior, and the distribution between wages and profits on the rate of economic growth; growth dynamics with limited resources; multi-sectoral growth models, relative prices, and the uniform rate of profit; applications to the study of real economics. —A. Burgstaller
Prerequisites: BC 3033 and BC 3035, or permission of the instructor.
3 points. Tu Th 1:10-2:25 S

ECO BC 3038y
International Money and Finance
Prerequisites: BC 3033
3 points. Not offered in 1995-96. S

ECO BC 3039x
Natural Resources and Environmental Economics
An economic analysis of major issues and policy choices concerning the environment and stock of natural resources. Topics include: public goods, cost/benefit analysis; hedonic prices, efficient sustainable yield; Pigovian taxes and marketable emission permits. (This course will be recognized as an upper-level elective for Economics majors who demonstrate advanced economic analysis. —R. Sethi
Prerequisite: ECO BC 1002 or ECO BC 2035.
Prerequisite for Economics majors: ECO BC 3035.
3 points. Tu Th 5:40-6:55 S

ECO BC 3051y
Law and Economics
Prerequisites: BC 3035
3 points. Not offered in 1995-96. S

ECO BC 3063y
Seminar: Topics in Economic Theory
Topics in economics theory of the instructor's choice. —P. Mehrling
Prerequisite: BC 3035 or BC 3033, and permission of the instructor.
4 points. Tu 4:10-6:00 S

ECO BC 3064y
Seminar: Topics in Economic Policy
Prerequisites: BC 3035 or BC 3033, and permission of the instructor.
4 points. Not offered in 1995-96. S

ECO BC 3065y
Seminar in Business Organization
A seminar on the evolving nature of the business enterprise; the roles of labor, technology, management, and finance in the production and distribution of services; the sources of productivity, profitability, and competitive advantage; the impact of business organization on national economic performance; the implications of business organization for alternative economic theories and for alternative economic policies. —A. Dye
Prerequisites: BC 3035 and permission of the instructor.
4 points. W 4:10-6:00 I S

ECO BC 3099x, y
Independent Study
—Staff
Points TBA. Hours TBA.

The following courses are described in the bulletin of Columbia College. Graduate courses are open to qualified undergraduates with the instructor's permission.
Note: Barnard Economics BC 3033 is equivalent to Columbia W 3213, and Barnard BC 3035 to Columbia W 3211. Please consult the department office for a list of Columbia economics courses whose subject matter overlaps directly with Barnard economics courses (only one of two such courses will earn credit).

ECO W 3022y
Economics of Finance
—Instructor TBA
Prerequisites: calculus, statistics and intermediate microeconomics.
3 points. Hours TBA. S
(Equivalent to BC 3036)

ECO W 3228x
The Urban Economy
—M. Kahn
Prerequisite: W 3211.
3 points. M W 2:40-3:55 S

ECO W 3251x
Industrial Organization
—J. Choi
Prerequisite: W 3211
3 points. Tu Th 2:40-3:55 S

ECO W 3261y
Introduction to Accounting and Finance
4 points. Sec. 1 Tu Th 12:10-2:00 —L. Schier
Sec. 2 M W 6:10-8:00 —K. Morgan
(Note: Only one course in accounting will be credited toward the Bachelor of Arts degree.)

ECO W 3321y
Economic Development
—J. McLaren
Prerequisite: Economics W 3211.
3 points. Tu Th 2:40-3:55 S
(Equivalent to BC 3029)

ECO W 4400y
Labor Economics
—J. Tracy
Prerequisite: W 3211.
3 points. M W 2:40-3:55 S
(Equivalent to BC 3019)

ECO W 3412x, y
Econometrics
Prerequisites: Statistics W 1111 or the equivalent and W 3211 or W 3213.
3 points. x: Sec. 1 M W 10:35-11:50 —TBA
Sec. 2 M W 6:10-7:25 —P. Dhrymes
y: Sec.1 Tu Th 6:10-7:25 —C. Cavanagh
Sec 2 Tu Th 9:10-10:25 —P. Jefferson S
(Equivalent to BC 3018)

ECO W 3415x
Game Theory
—P. Dutta
Prerequisite: Economics W 3211.
3 points. Tu Th 2:40-3:55 S

ECO W 3610x
The Economic Analysis of Law
—A. Abere
Prerequisite: Economics W 3211.
3 points. M 9:10-10:50 S
(Equivalent to BC 3051)

ECO W 3711y
Monetary Economics and Policy
—C. Osler
Prerequisite: W 3213.
3 points. Tu Th 6:10-7:25 S

ECO W 4465x
Public Economics
—K. Lancaster
Prerequisite: W 3211.
3 points. M W 11:00-12:15 S
(Equivalent to BC 3016)

ECO W 3904x
International Trade
—R. Mundell
Prerequisite: W 3211.
3 points. M W 4:10-5:25 S

ECO W 3905x
International Monetary Theory and Policy
—R. Mundell
Prerequisite: W 3213.
3 points. M W 11:00-12:15 S

ECO W 4235x
Historical Foundations of Modern Economics: Adam Smith to J.M. Keynes
3 points. Not offered in 1995-96. S
(Equivalent to BC 3041)

ECO G 4325y
Economic Organization and Development of Japan
—Instructor TBA
Prerequisites: W 3211 or W 3213.
3 points. Not offered in 1995-96. S

ECO W 4337y
Economic Organization and Development of the Middle East
—V. Nowshirvani
Prerequisite: W 1105.
3 points. M 4:10-6:00 S

ECO G 4523x
Economic Organization and Development of the CIS
—R. Ericson
Prerequisite: W 1105.
3 points. Hours TBA. S

ECO W 4526y
Current Economic Problems of the CIS
—P. Desai
Prerequisite: W 1105.
3 points. M 2:10-4:00

ECO G 4527y
Economic Organization and Development of China
—C. Riskin
Prerequisite: W 1105.
3 points. Tu 4:10-6:00 *S*

ECO W 4625x
The Economics of the Environment
—Instructor TBA.
Prerequisite: W 3211.
3 points. Hours TBA.;;
(Equivalent to BC 3039)

ECONOMIC HISTORY

4A Lehman Hall 854-3454

This program is supervised by the Committee on Economic History.

Economics: Linda Barrington[1] (Program Adviser), Alan Dye

History: Deborah Valenze

[1]Absent on leave /Autumn term.

The Economic History Program seeks to develop an understanding of the historical process from an economic perspective. The program combines a solid background in economic analysis with an in-depth study of history. Majors in this program will be prepared to enter graduate programs in law, business, public policy, or administration, as well as economics and history.

REQUIREMENTS FOR THE MAJOR

A major in Economic History must complete the following 11 courses or their equivalents:

ECO BC 2013	*Economic History of the United States*
ECO BC 3041	*Theoretical Foundations of Political Economy*

Two of the following:

ECO 3033	*Intermediate Macroeconomic Theory*
ECO 3035	*Intermediate Microeconomic Theory*
ECO 2411	*Statistics for Economics*

ECH BC 3066	*Colloquium in Economic History*

(Students must have completed all the course requirements listed above ECH 3066 before taking the Colloquium.)

Four History courses (three within a single concentration) selected in consultation with the major adviser.

Two semesters of Senior Research Seminar in Economics or History.

(Students must have completed all the requirements for the major before they will be permitted to register for the Senior Research Seminar.)

No minor is offered in the Economic History Program.

COURSES OF INSTRUCTION

ECH BC 3066x
Colloquium in Economic History
Analytical and empirical methods in economic history through intensive study of one subject area, drawn from American and European economic history in alternate years. Specific topic to be determined by the instructor. —A. Dye
Prerequisites: ECO BC 2013, 3041, and two of the following: ECO BC 3033, 3035, 2411 or equivalent. 4 points. Tu Th 1:10-2:25

ECONOMICS AND MATHEMATICS

4A Lehman Hall 854-3454

Economics Department Representative: Duncan Foley[1], André Burgstaller

Mathematics Department Representative: David Bayer

[1]Absent on leave 1995-96.

The Economics and Mathematics major provides the student with a grounding in economic theory comparable to that provided by the general economics major and exposes the student to rigorous and extensive training in mathematics. The program will be particularly useful for students planning to do graduate work in economics, which frequently demands greater mathematical training than that acquired through the minimum requirements of the basic economics degree.

REQUIREMENTS FOR THE MAJOR

A major in Economics and Mathematics must complete the following 14 courses or their equivalents:

Economics: (7 courses)

ECO BC 3018	*Econometrics*
ECO BC 3033	*Intermediate Macroeconomic Theory*
ECO BC 3035	*Intermediate Microeconomic Theory*
ECO BC 3041	*Theoretical Foundations of Political Economy*
ECO BC 3062	*Senior Research Seminar* (two semesters of the Senior Research Seminar are optional)

Two electives with an intermediate micro- or macroeconomic theory course as prerequisite

Mathematics: (7 courses)

MAT V 1105	*Calculus IS*
MAT V 1106	*Calculus IIS*
MAT V 2010	*Linear Algebra*
MAT W 4061	*Introduction to Modern Analysis*
or	
MAT V 2500	*Analysis and Optimization*
STAT-IEOR W 4150	*Introduction to Probability and Statistics* (this replaces ECO BC 2411 Statistics for Economics)

Two electives above the 2000 level.

Calculus IA, IIA, and IIIA or Honors Calculus may be substituted for IS, IIS with permission from the economics and mathematics department representatives. Students must obtain approval from each department representative before selecting electives. In exceptional cases, these may be from related fields.

EDUCATION

336 Milbank Hall 854-2117, 5408, 7072, 7160

Senior Lecturer: Susan Riemer Sacks (Program Director)

Senior Associate: Katherine Knight Wilcox

Associate: Christine Valenza (Acting Director)

This program is supervised by the Committee on Education:

Professor of English: Elizabeth Dalton

Professor of Spanish: Mirella Servodidio

Professor of Psychology: Peter Balsam

Associate Dean of Columbia College: Kathryn Yatrakis

Dean of Students, School of General Studies: David Lelyveld

The Barnard Education Program is open to Barnard, Columbia, and General Studies students who are interested in teaching children or adolescents on the elementary or secondary level, who are considering working with young people or adults in human service agencies, or who are preparing for careers related to education. The Education Program concentration is taken in conjunction with a major in an approved field of study and may constitute a minor. Courses counted toward a major may not be doubly counted for a minor.

Interested students should consult with the Education Program faculty in 336 Milbank and obtain an information packet and application, along with the Admissions Policy. Enrollment for student teaching is limited. Applicants are accepted on the basis of good academic standing, evidence of interest in the field of education, and capacity for growth in areas vital to the teaching-learning experience. Students may apply for admission during the sophomore year and no later than the first Monday in October in the autumn term of the junior year. See Admissions Policy.

The Education Program is approved by the New York State Education Department. Graduates of the Program are recommended for New York State Provisional Certification, which makes them eligible for membership in the Interstate Certification Agreement, a reciprocal certification arrangement among thirty-one states. Consistent with the program requirements, certification is based on demonstration of competency in both academic and field settings. Students must pass the New York State Teacher Certification Examination as part of the certification process.

Elementary School Program

This program leads to the New York State Provisional Common Branch Certificate (pre-K–6). Students participating in the elementary program must complete 16 credits as follows:

One Psychology course, chosen from among:

Psychology BC 1105 or BC 1107	*Psychology of Learning*
Psychology BC 1127 or BC 1129	*Developmental Psychology*
Psychology BC 1130 or BC 1132	*Human Memory and Learning*
Psychology BC 2134	*Educational Psychology*

One Foundations course, chosen from among:

Philosophy V 3758	*Philosophy of Education*
Sociology V 3225	*Sociology of Education*
Education BC 2032	*Contemporary Issues in Education*
History BC 3461	*Education in American History*

A third course from either of the above categories, and the methods course with practicum:

Education BC 2052	*Seminar in Methods of Elementary School Teaching*
Education BC 2055	*School Practicum*

During the Spring term of their junior year, all students entering the elementary education program take Education BC 2052 and corequisite Education BC 2055. BC 2052 and BC 2055 are prerequisites to elementary student teaching.

Secondary School Program

Programs leading to the New York State Provisional Secondary Certificate (7–12) are offered in the fields of English, Foreign and Ancient Languages, Mathematics, the Sciences, and Social Studies. Students participating in the secondary program must complete 12 credits from the following course of study:

One Psychology course, chosen from Psychology BC 1105 or BC 1107; BC 1127 or BC 1129; BC 1130 or BC 1132; or BC 2134; and

The methods course with practicum:

Education BC 2062	*Seminar in Secondary School Curriculum Development*
Education BC 2055	*School Practicum*

All students entering the secondary education program take this methods course, which covers principles and methods for teaching English, Social Studies, the Sciences, Mathematics, and Ancient and Foreign Languages; and School Practicum, a classroom internship each week. Education BC 2062 and Education BC 2055 are prerequisites to secondary student teaching.

All senior students in the Elementary or Secondary Education Program enroll concurrently in the following two courses for four credits each:

Education BC 3063	*Teaching in the Elementary or Secondary Schools*
Education BC 3064	*Seminar in the Teaching-Learning Process*

Education BC 3063 is the field-based student teaching experience which places students in a classroom five mornings a week for one semester. Student teaching provides the opportunity to develop curricular materials and, with close supervision, to implement them through practice teaching.

Education BC 3064 is a weekly seminar which provides a forum for discussions of the principles and practices of classroom teaching. The student examines the teaching experience and the interrelationships between the subject area, child and adolescent development, the role of the school in society, and the teacher as a decision-maker.

Student teaching and the seminar should be registered as Education BC 3063x and BC 3064x in the Autumn term, or Education BC 3063y and BC 3064y in the Spring term. No more than two other courses should be taken in addition to student teaching and the seminar, and student with incompletes may not student teach.

Senior year student teaching may conflict with other training opportunities at Barnard (e.g., Psychology BC 3465, BC 3466, assisting at the Center for Toddler Development). Students with these interests should arrange their schedules appropriately.

REQUIREMENTS FOR THE MINOR

The minor requires a minimum of six courses: Education BC 3063, Education BC 3064, a methods course and the practicum course, and two others from those courses cited above but not counted toward the major.

COURSES OF INSTRUCTION

EDU BC 2032x
Contemporary Issues in Education

Study of critical issues confronting education today and the relation to contemporary society. Topics include equity in learning experiences for bilingual, culturally diverse, gifted, and disabled students—girls and boys. The impact of computers, technology, and values teaching on schooling will be addressed. Observations in classroom required. —K. Wilcox
Enrollment limited to 25. Prerequisite: Permission of the instructor.
4 points. W 2:10-4:00 *I*

EDU BC 2052y
Seminar in Methods of Elementary School Teaching

Methods of teaching reading and mathematics and techniques for integrating the core subjects into the elementary curricula examined through the experience of working with children in an elementary school classroom and the weekly Barnard seminar. —K. Wilcox
This course should be taken in the Spring term of the junior year with corequisite BC 2055. Prerequisite to student teaching in the elementary grades. Open to Education Program applicants and others with permission of the instructor.
4 points. W 2:30-4:30

EDU BC 2055y
School Practicum

A school-based opportunity to investigate educational theory and methodology in practice through involvement in assigned elementary or secondary New York City public schools. Supervised classroom experiences interrelate with corequisite Methods seminars to provide an understanding of teaching and learning processes through participant-observation of 6 hours per week.
—Sec.1 K. Wilcox; Sec. 2 C. Valenza
Corequisite: Sec. 1 elementary, BC 2052y or Sec. 2 secondary, BC 2062y.
2 points. Hours TBA.

EDU BC 2062y
Seminar in Secondary School Curriculum Development

Theory and practice of developing curricula for secondary school classrooms. Emphasis on the application of pedagogical methods for specific content areas, as well as general strategies for classroom management and meeting the needs of diverse student populations. Includes analysis of teacher-centered to student-centered structures. —C. Valenza
This course should be taken in the Spring term of the junior year with corequisite BC 2055. Prerequisite to student teaching in the secondary schools. Open to Education Program applicants and others with permission of the instructor.
4 points. W 2:30-4:30

EDU BC 3063x, y
Teaching in the Elementary or Secondary Schools

Student teaching: classroom teaching in elementary or secondary schools and exploration of the interrelations of process, content, and values in the educational experience. Student teaching requires a minimum of 20 class periods per week, each morning for one semester of the senior year. —Staff
Prerequisite: Completion of BC 2052 or BC 2062 and BC 2055. Corequisite: BC 3064. Both BC 3063 and BC 3064 are required for teaching certification. Enrollment limited.
4 points. Hours TBA.

EDU BC 3064x, y
Seminar in the Teaching-Learning Process

Examination of principles of classroom teaching and educational process in our society. This seminar accompanies student teaching and provides guidelines for teaching reading and subject areas and workshop experiences related to the learning situation. Provides a forum for discussion of the principles and practices of classroom teaching and examines the educational process. Teaching skills are developed through individual supervision, conferences, and videotaping. Seminar sessions include discussion of drug, alcohol, and child abuses. —S. Sacks
Prerequisite: Admission to Education Program. Corequisite: BC 3063. Enrollment limited.
4 points. M 2:10-4:00

History HIS BC 3461x
Education in American History

A consideration of the place educational institutions, educational ideas, and educators have played in American life. Emphasis will be on the connection between education and social mobility. —N. Woloch
Permission of the instructor required.
4 points. Tu 2:10-4:00

Philosophy PHI V 3758y
Philosophy of Education

Drawing on classical and contemporary authors, discussion with focus on the question of the

conditions requisite for producing free and responsible individuals. Selected readings from Plato, Rousseau, Dewey, and others. —R. Myers
3 points. Tu Th 1:10-2:25

Sociology SOC V 3225y
Sociology of Education
Social organization of education in the United States: the school as a complex organization; the classroom as a learning environment; social factors in academic aspirations and achievements; selected innovations in educational practices; and problems in the relations between the school and the community. —K. Neckerman
3 points. M W 1:10-2:25

COOPERATING TEACHER PARTICIPANTS FOR 1994-1995

Sol Bloom School, P.S. 84
Linda Crews
Mary Foote
Eleanor Jackson
Susan Knaster
Myra Lefkowitz
Clarence Loftin
Mary Lou Russell
Ruth Schroeder

William Sherman School P.S. 87
Nancy Goldstein
Betty Lerner
Ann Pacifico

Martin Luther King H.S.
English:
Nathaniel Guc
Science:
Despina Cocorikas

Mott Hall
Science:
Harvey Augenbraun
English:
Loraine McCurdy

John F. Kennedy H.S.
English:
Sheryl Mitzner
Social Studies:
Deborah Herschenfeld
Anthony Thoman
Math:
Mary De Cesare
Chemistry:
Paula Edlavitch

Frederick Douglass Academy
French:
Ira Simmonds

La Guardia H.S.
Foreign Language:
Susan Kardos
Mark Schertzer

Hunter College H.S.
English:
Carol Marsh
Rembert Herbert
Dan Rous
Spanish:
Jose Diaz

COOPERATING SCHOOLS FOR PRACTICUM PLACEMENTS

Elementary:
P.S. 125/Ralph Bunche School
P.S. 144/Gwendolyn Powell Brown Computer School
P.S. 145
P.S. 165/Robert E. Simon School
P.S. 166
P.S. 169/Sunset Park School, Brooklyn
West Side Community School
Manhattan School for Children at P.S. 165
Deerfield School, Milburn Township, NJ
Hommocks School, Westchester, NY

Secondary:
Booker T. Washington Junior High School
Columbus Academy
Westlake High School, Thornwood, NY

Institute for Urban Education at Barnard

A summer program for highly motivated college students who study in New York City public middle schools and work during July in forest ecology with seventh grade pupils and teachers. Students gain experience with urban education, early adolescents, science curriculum, and inquiry learning.

IUE BC 2001
Issues in Urban Education

Examination of urban middle school structures and the impact of policy on educational purposes and practices. Emphasis on learners and teachers within the school setting, on early adolescent development, on differential, often gender-related, academic and social experiences, and on the teacher. —S. Sacks, E. Travers

Prerequisite: admission to Institute, selection as IUE Fellow.
3 points. Tu Th 6:00-8:30; Sat 9:00-12:00, last week of May through June.

IUE BC 2002
Independent Study: Scientific Inquiry and Curriculum Development

Focus on the development of site-based scientific activities and the strategies for implementation with early adolescents. Emphasis is on approaches to active learning and scientific inquiry, observation, data gathering, and analysis. Students implement curriculum in home community schools. —S. Sacks, E. MacMullen (Yale)
Prerequisite: IUE BC 2001, selection as IUE Fellow.
3 points. July and throughout Fall term.

ENGLISH

417 Barnard Hall 854-2116

Professors: James Basker, Elizabeth Dalton (Chair)[2], Mary Gordon (Millicent C. McIntosh Professor), Maire Jaanus, Anne Lake Prescott

Associate Professors: Christopher Baswell, Heather Henderson (Visiting), William Sharpe

Adjunct Associate Professors: Frank Brady, Patricia Cobey, Marilyn Hacker, Nahid Rachlin, Elizabeth Swain (Theatre)

Assistant Professors: Lisa Gordis, Jennie Kassanoff[1], Paula Loscocco, Peter Platt, Cary Plotkin, Timea Szell

Senior Lecturer: Nancy Kline Piore (Director of First-Year English and The Writing Project)

Lecturers: Constance Brown, Patricia Denison, Margaret Ellsberg, John Pagano, Aaron Schneider, Anita Soloway, Elizabeth Stewart

Senior Associate: Quandra Prettyman

Instructors: Lea Baechler, Toby Benis, Lauren Fitzgerald, Karen Hornick, Gail Korn, James Runsdorf, Margaret Vandenburg

Assistant: Connie Budelis

[1]Absent on leave Autumn term

[2]Absent on leave Spring term

The offering in English is designed to foster good writing, effective speaking, and heightened understanding of texts that enrich our culture.

Students majoring in English are encouraged to develop their responsiveness to the literary imagination and their sensitivity to literary form through disciplined attention to language and to critical and scholarly methods.

Non-majors may satisfy the distribution requirement in the Humanities (Part A) and in Culture and Societies (Part B) by electing appropriate courses listed under Language and Literature.

REQUIREMENTS FOR THE MAJOR

A major program consists of at least 10 courses in sequence:

1. In the sophomore or junior year, the student will complete three required courses: an introduction to the methods of literary analysis (BC 3193, *Critical Writing*), and an introduction to literary works of the Renaissance and the Enlightenment (BC 3159-BC 3160, *The English Colloquium*); for possible substitutions, see BC 3159, below.
2. In addition, she will complete five advanced courses so distributed as to extend her knowledge of English and American literature of different periods. At least two of these must be in literature before 1900 (ETR BC 3136, 3137, BC 3140y, Sec.1; BC 3141, BC 3154-BC 3180). She may select two of the five from courses BC 3103-BC 3145.
3. As a senior, she will complete advanced work in two seminars (BC 3997, BC 3998). Seniors concentrating in Theatre or Writing will normally substitute the Special Project in Theatre or Writing (BC 3996) for one of the required seminars. Other qualified senior majors may request permission to substitute Independent Study for one of the seminars (see BC 3999, below).

REQUIREMENTS FOR THE MINOR

A minor consists of at least five English courses: one from either Chaucer (BC 3154 or BC 3155), Shakespeare (ETR BC 3136, ENG BC 3163, or BC 3164), or Milton (BC 3167); two

additional courses in literature before 1900 (ETR BC 3137, BC 3140y, Sec. 1; BC 3141; and BC 3154-BC 3180); and two electives.

CONCENTRATIONS IN THE MAJOR

American Literature

In addition to ENG BC 3159, 3160 (or appropriate substitutes) and 3193, an American concentration consists of either 3179 or 3180, either 3181 or 3182, one other American literature course, and one senior seminar with a focus on American literature. (The department requires two senior seminars for the major.) Of the remaining electives, one must be in English literature before 1900.

Theatre

Students interested in a Theatre concentration should consult Professor Partridge (Room 506 Milbank) or Professor Denison (Room 412 Barnard). A Theatre concentration consists of four courses: three courses, either two in History of Theatre (ETR BC 3132-3133) and one Seminar (ETR BC 3134-3137, THR 3140) OR one in History of Theatre 3132 or 3133 and two Seminars; a fourth course that is either Special Project in Theatre (ENG BC 3996) or Senior Project: Performance (THR BC 3997), or Thesis Course: History, Dramaturgy, Criticism (THC BC 3998). These four courses will count in place of two electives and one Senior Seminar in the regular English major.

Writing

Students interested in a writing concentration should submit a portfolio of their work to Professor Gordon by the end of their junior year. A writing concentration consists of at least four courses: two writing courses (BC 3105-3113); a third course in writing combined with a Special Project in Writing (BC 3996) or Independent Study (BC 3999); and a fourth course, either a literature course (in English or an other language), a creative writing course, or ARS BC 3031. These four courses will count in place of two electives and one Senior Seminar in the regular English major.

COURSES OF INSTRUCTION

INTRODUCTORY

ENG BC 1201x, y
First-Year English

Close examination of texts and regular assignments in composition, designed to help students read critically and write effectively. Sections of the course are grouped in four clusters: I. American Identities; II. The Creative Imagination; III. Travel and Discovery; IV. Writing Women's Lives. Readings are primarily in literature, but materials from other sources will also be included.
—Director and Staff
Prescribed for all first-year students. May not be taken for P/D/F.
3 points. Consult department bulletin board for section times.

ENG BC 1202x
Studies in Writing

Intensive practice in writing, emphasizing drafts, revision, peer response, and individual conferences. Consideration of the conventions of English style, usage, and grammar through both informal and formal writing, culminating in expository essays. Recommended for (but not limited to) first-year students and students whose first language is not English.
Permission of the instructor required.
May be taken only for P/D/F.
3 points.
x: Sec. 1 M W 11:00-12:15 —L. Fitzgerald
Sec. 2 Tu Th 10:35-11:50 —A. Soloway
Sec. 3 M W 4:10-5:25 —Instructor TBA.

WRITING

Registration in each course is limited and the written permission of the instructor is required; for courses 3105-3113, submit a writing sample in advance. File signed departmental registration blanks with Mrs. Budelis (417 Barnard). Two writing courses may not be taken concurrently.

ENG BC 3101x

The Writer's Process: A Seminar in the Teaching of Writing

An exploration of theory and practice in the teaching of writing, designed for students who plan to become Writing Fellows at Barnard (see page 41). Students will read current theory and consider current research in the writing process and engage in practical applications in the classroom or in tutoring. —N. Piore

Application process and permission of the instructor.
3 points. Tu Th 1:10-2:25

ENG BC 3103x, 3104y
Essay Writing

English compostion above the first-year level. Techniques of argument and effective expression. Weekly papers. Individual conferences. Some sections have a special focus, as described. English as a second language (ESL) is offered each term in Section 4 for students who want an upper-level writing course.

3 points.

BC 3103x *Sec. 1 M 2:10-4:00* —M. Ellsberg
Sec. 2 W 12:00-1:50 —J. Runsdorf
Sec. 3 Th 12:00-1:50 —T. Benis
(ESL) *Sec. 4 Tu 2:10-4:00* —L. Fitzgerald
BC 3104y *Sec. 1 Tu 2:10-4:-00* —Q. Prettyman
Sec. 2 M 12:00-1:50 Advanced writing with style: especially for students contemplating law or graduate school. —A. Prescott
Sec. 3 W 4:10-6:00 Journalism and popular writing, methods of newswriting and news judgment. —F. Brady
(ESL) Sec. 4 Tu 4:10-6:00 —L. Fitzgerald

ENG BC 3105x, 3106y
Fiction and Personal Narrative

Short stories and other imaginative and personal writing.

3 points. x: Th 4:10-6:00 —E. Dalton
y: W 2:10-4:00 —T. Szell

ENG BC 3107x, 3108y
Experiments in Writing

Practice in writing short stories and autobiographical narrative, with discussion and close analysis in a workshop setting.

3 points. x: Tu 2:10-4:00 —N. Rachlin
y: Sec. 1 Tu 2:10-4:00 —N. Rachlin
Sec. 2 Th 4:10-6:00 —TBA.

ENG BC 3110x
Poetry Writing

Varied assignments designed to confront the difficulties and explore the resources of language through imitation, allusion, free association, revision, and other techniques. —M. Hacker

3 points. M 4:10-6:00

ENG BC 3111x, 3112y
Story Writing

Advanced work in writing, with emphasis on the short story. —M. Gordon

Prerequisite: Some experience in the writing of fiction. Conference hours to be arranged.
3 points. Tu 4:10-6:00

ENG BC 3113x
Playwriting

A workshop to provoke and investigate dramatic writing. —P. Cobey

3 points. M 12:00-1:50

SPEECH

Registration in each course is limited and permission of the instructor required.

ENG BC 3121y
Uses of Speech

An introduction to effective oral presentation, including interviewing and public speaking. Emphasis on self-presentation, research, organization, and audience analysis. —P. Denison

3 points. Tu Th 2:40-3:55

ENG BC 3124y
Oral Interpretation of Literature

3 points. Not offered in 1995-96.

THEATRE

Registration in each course is limited. Students may sign up for theatre courses outside the Theatre Office, Room 507 Milbank Hall.

ETR BC 3132y
History of Theatre: Shakespeare to the 19th Century

Study of theatre literature and practice from the Elizabethan period to the 19th century. Focus includes Shakespeare, the English Restoration, and Spanish, French, and German drama of the period. —E. Swain

Enrollment limited to 40 students.
3 points. Tu Th 2:40-3:55 *III H*

ETR BC 3133y
History of Theatre: Modern Period
Enrollment limited to 40 students.
3 points. Not offered in 1995-96. *III H*

ETR BC 3134x
Seminar on Contemporary British Political Theatre
An examination of plays and production approaches employed by the post-1968 British political theatre movement, focusing on such authors as Bond, Hare, Edgar, Poliakoff, Keeffe, and Churchill. Antecedents such as Shaw and Brecht will be discussed to provide a broader context in order to explore methodology and the social climate conducive to political theatre. —E. Swain
Prerequisite: One semester of theatre history or permission of the instructor.
4 points. W 4:10-6:00 *III H*

ETR BC 3135x
Seminar on 19th-Century Social Drama
Late 19th-century social drama in the context of earlier melodrama. The shifting relationship between the visual and the verbal in the theatre and its implications for social and theatrical change. Playwrights include Jerrold, Scribe, Mowatt, Taylor, Robertson, Ibsen, Piñero, Wilde, Shaw, and Robins. —P. Denison
Enrollment limited to 20 students.
4 points. Th 4:10-6:00 *III H*

ETR BC 3136y
Seminar on Shakespeare in Performance
The dramatic text as theatrical event. Differing performance spaces, production practices, and cultural conventions promote differing modes of engagement with dramatic texts. We will explore Shakespeare's plays in the context of actual and possible performances from the Renaissance to the 20th century. —P. Denison
Enrollment limited to 20 students.
4 points. Th 4:10-6:00. *I H*

ETR BC 3137y
Seminar on Restoration and 18th-Century Drama
Enrollment limited to 20 students.
4 points. Not offered in 1995-96. *III H*

LANGUAGE AND LITERATURE

ENG BC 3140x
Seminars on Special Themes
Registration may be limited.
3 points.

1. Colonial Encounters: Visions and Revisions
Consideration of texts describing encounters between British colonists and American Indians, with attention to how members of each group perceived and represented members of the other group, and to how these early encounters and representations are reflected in later American history and literature. Authors include Williams, Rowlandson, Irving, Apess, Cooper, and Hawthorne. —L. Gordis
Tu Th 10:35-11:50 *III H*

2. American Jewish Writers
The tensions of acculturation, the American dream, the impact of the Holocaust, and the State of Israel. Writers include Cahan, H. Roth, Malamud, Bellow, Olsen, Paley, P. Roth, Ozick, Spiegelman. —A. Soloway
Tu Th 9:10-10:25 *III H*

3. Transformation, Transgression, and Desire
Narratives of shape-shifting, ambivalent identities, cross-dressing, and gender reversal, in high culture from Ovid to the present. The impact of desire, in various forms, on notions of the self. Texts will include Ovid's *Metamorphoses*, medieval romance, Shakespeare's *The Winter's Tale*, Spenser's *Faerie Queene*, Balzac's *Sarrazine*, Woolf's *Orlando*, Eliot's *Waste Land*. —C. Baswell
Tu Th 1:10-2:25 *I H*

4. Suburbia and Its Culture
An examination of suburban life and art in Britain and the U.S. since 1800. Topics include the sequestration of women, the Garden City Movement, "white flight," and the strategic role played by television and film. Works by Dickens, Collins, Betjeman, Cheever, Roth, Friedan, Naylor, and others. —W. Sharpe
Tu Th 4:10-5:25 *III H*

5. American Autobiography
How do autobiographers shape the stories of their lives? Is autobiography fact or fiction? An analysis of the conventions of the genre, examining how writers use literary devices to explore and represent the Self. Authors may include Benjamin Franklin, Frederick Douglass, Maya Angelou, Mary McCarthy, Richard Wright, Annie Dillard, Maxine Hong Kingston.
—H. Henderson
M W 4:10-5:25 *III H*

BC 3140y

1. Explorations of Black Literature: 1760-1890
Poetry, prose, fiction, and nonfiction, with spe-

cial attention to the slave narrative. Includes Wheatley, Douglass, and Jacobs, but emphasis will be on less familiar writers such as Brown, Harper, Walker, Wilson, Forten. Works by some 18th-century precursors will also be considered. —Q. Prettyman
M W 11:00-12:15 *I H*

2. Fable and Fantasy
Selected works by 19th- and 20th-century authors. Lewis Carroll, Ursula LeGuin, C. S. Lewis, and others. Religious and philosophical fable; nonsense and paradox; other worlds. —A. Prescott
M W 2:40-3:55 *III H*

3. The Literature of Travel
An exploration of the genre of travel writing, including its overlap with other genres, such as autobiography, advertising, and political analysis. Discussion will focus on the fictional qualities of "true" reportage, on the confrontation of Self and Other, on the nature of women's journeys, on the role of humor and disguise. Authors may include Frances Trollope, Mark Twain, Evelyn Waugh, V. S. Naipul, Paul Theroux, Bruce Chatwin, Eric Newby, Jan Morris. —H. Henderson
M W 1:10-2:25 *III H*

ENG BC 3141x, 3142y
Major English Texts
A chronological view of the variety of English literature through study of selected writers and their works. Autumn: Chaucer through Dryden. Spring: Swift through Eliot. —M. Ellsberg
Guest lectures by members of the department.
3 points. M W 11:00-12:15 *III H*

English-Women's Studies EWS BC 3144y
Minority Women Writers in the United States
Literature of 20th-century minority women writers in the United States, with emphasis on works by Asian, Black, Hispanic, and Native American women. The historical and cultural as well as the literary framework. —Q. Prettyman
Permission of the instructor required.
3 points. M W 2:40-3:55 *I H*

ENG BC 3154x
The Early Chaucer
3 points. Not offered in 1995-96. *III H*

ENG BC 3155y
Chaucer
A study of *The Canterbury Tales* and their "tellers," with special emphasis on the pilgrimage metaphor, structure, genre, gender, and issues of authority in language and fiction. —C. Baswell
3 points. Tu Th 9:10-10:25 *III H*

CPE 3158x
Medieval Literature
Major works of the period, English and Continental, with particular emphasis on shifting notions of "selfhood," agents of transformation, epistemology (dreams, revelations, confession, and the limits of authority), and the bliss and travail of embodiment. —T. Szell
3 points. Tu Th 4:10-5:25 *I H*

ENG BC 3159x-3160y
The English Colloquium
Major writers and literary works of the Renaissance and the Enlightenment examined in terms of leading ideas in those periods.
Required of majors in the junior year. Any student who wishes may substitute 3 courses, ETR BC 3137, 3141, 3163 or 3164 or ETR BC 3136, 3165-3169 and BC 3173-3174. One of these may also count toward satisfying the "before 1900" requirement.
4 points.

1. Imitation and Creation
New ideas of the mind's relation to the world. New perspectives, the emergence of new forms, experimentation with old forms, and the search for an appropriate style.
—x: P. Platt, y: C. Plotkin
M 2:10-4:00

2. Skepticism and Affirmation
The development of modern concepts of subjectivity and authority. The rise of art and the artist. Humanism, Rationalism, and Empiricism. Ethics and evil. The exploration of limits, and the limitless. —x: M. Jaanus, y: J. Basker
Tu 2:10-4:00

3. Reason and Revelation
Humanism, reformation, and revolution: the possibilities of human knowledge; sources and strategies for secular and spiritual authority; the competing demands of idealism and experience. —x: P. Loscocco, y: M. Ellsberg
Th 2:10-4:00

ENG BC 3163x, 3164y
Shakespeare
A critical and historical introduction to Shakespeare's comedies, histories, tragedies, and romances. —P. Platt
3 points. M W 11:00-12:15 *III H*

ENG BC 3165x
The English Renaissance
Continuities, recoveries, and innovations from Thomas More to Sidney and Spenser; humanism, love poetry, the literature of history and

exploration, wit and humor, relgious conflict. —A. Prescott
3 points. M W 1:10-2:25 *III H*

ENG BC 3166x
Seventeenth-Century Prose and Poetry
Tradition and innovation in early modern English literature from Jacobean love poetry and religious writings through the partisan poetics of the Civil War years to the brave new world of Restoration satire. Donne, Jonson, and Wroth to Marvell, Bunyan, and Behn. —P. Loscocco
3 points. Tu Th 10:35-11:50 *III H*

ENG BC 3167y
Milton
An exploration of Milton's career from his early poems and later prose to *Paradise Lost* and beyond. Topics considered include poetic vocation, classical imitation, political controversy, gender and sexuality, and Biblical hermeneutics. —P. Loscocco
3 points. Tu Th 10:35-11:50 *III H*

ENG BC 3169y
Renaissance Drama: Kyd to Ford
Major plays of the English Renaissance (excluding Shakespeare), with emphasis on Marlowe and Middleton. —P. Platt
3 points. M W 2:40-3:55 *III H*

ENG BC 3171y
The Culture of the Novel
The Romantic-Realistic novels of Austen, Mary Shelley, the Brontes, Dickens, and Hardy. Other forms of 19th-century novelistic narrativity. The philosophical, religious, amorous, and ethical fictions. —M. Jaanus
3 points. M W 11:00-12:15 *I H*

ENG BC 3173x
Eighteenth-Century Literature: Satire and Comedy
Satire and comedy in their literary and historical contexts. Readings in verse satire, parody, comic drama, and the novel. Authors to include Dryden, Behn, Rochester, Pope, Swift, Fielding, Johnson, Sterne, Burney, Austen, and others. —J. Basker
3 points. M W 11:00-12:15 *III H*

ENG BC 3174x
The Age of Johnson, 1740-1800
3 points. Not offered in 1995-96. *III H*

ENG BC 3176x
English Romanticism
Two generations of Romantic writers in their intellectual context, with reference to contemporary movements in philosophy, music, and the plastic arts. Authors include Goethe, Blake, Wordsworth, Coleridge, Byron, P. B. Shelley, and Keats. One novel and contemporary critical and philosophical writings. —C. Plotkin
3 points. Tu Th 2:40-3:55 *III H*

ENG BC 3177y
The Victorian Age in Literature
The origins of modern culture in Victorian England: urbanization, industrialism, evolution, the women's movement, as seen in works by Dickens, Eliot, Ruskin, Newman, Arnold, and others. —A. Soloway
3 points. M W 9:10-10:25 *III H*

ENG BC 3178x
Victorian Poetry and Criticism
Poetry, art, and aesthetics in an industrial society, with emphasis on the role of women as artists and objects. Poems by Tennyson, Arnold, Christina and D. G. Rossetti, Swinburne, and Elizabeth and Robert Browning; criticism by Ruskin, Arnold, and Wilde; paintings by the Pre-Raphaelites and Whistler; photographs by J. M. Cameron. —W. Sharpe
3 points. Tu Th 10:35-11:50 *III H*

ENG BC 3179x
American Literature to 1800
The formation and development of American literary traditions. Writers include Bradford, Shepard, Cotton, Bradstreet, Taylor, Rowlandson, Edwards, Wheatley, Franklin, Woolman, Brown. —L. Gordis
3 points. Tu Th 1:10-2:25 *III H*

ENG BC 3180y
American Literature, 1800-1870
The development of a national literature from the late Republican period through the Civil War. Writers include Irving, Emerson, Poe, Fuller, Thoreau, Douglass, Stowe, Jacobs, Whitman, Dickinson. —L. Gordis
3 points. M W 1:10-2:25 *III H*

ENG BC 3181y
American Literature, 1871-1945
American literature in the context of cultural and historical change. Writers include Twain, James, DuBois, Wharton, Cather, Dreiser, Fitzgerald, Faulkner, Hurston. —J. Kassanoff
3 points. Tu Th 10:35-11:50 *III H*

ENG BC 3182y
American Fiction
American fiction from the 18th to the 20th century. Writers include Rowson, Hawthorne, Melville, Alcott, Twain, James, Wharton,

Faulkner, Hurston. —J. Kassanoff
3 points. Tu Th 2:40-3:55 *III H*

ENG BC 3185y
Modern British and American Poetry
The poetry of three decades, 1915-25, 1955-65, 1980-90. Poems by Yeats, Eliot, Williams, Millay, Larkin, O'Hara, Rich, Hughes, and others.
—W. Sharpe
3 points. Tu Th 10:35-11:50 *III H*

CPE BC 3186x
Modern Drama
3 points. Not offered in 1995-96. *H*

CPE BC 3187x
American Writers and Their Foreign Counterparts
Form and consciousness in modern fiction as seen in selected 19th- and 20th-century American, European, and English works by Flaubert, Dostoevsky, James, Proust, Gide, Woolf, Faulkner, and others. —E. Dalton
3 points. M W 2:40-3:55 *I H*

ENG BC 3188y
The Modern Novel
Works by James, Conrad, Ford, Forster, Lawrence, Joyce, Woolf, and others. —M. Gordon
3 points. Tu Th 1:10-2:25 *III H*

ENG BC 3189x
Postmodern Literature
3 points. Not offered in 1995-96. *H*

ENG BC 3190y
Global Literature in English
The production of literary texts in English by a variety of people of different countries, races and cultures; the encounter of Western and non-Western heritages; the clash of legacies and ideologies; mutual revisions and reevaluations.
—M. Jaanus, B. Stewart
3 points. M W 4:10-5:25 *I H*

ENG BC 3191x, y
The English Conference: The Lucyle Hook Guest Lectureship
Various topics presented by visiting scholars in courses that will meet for three or four weeks during each semester. Topics, instructors, and times will be announced by the department. Students must attend all classes to receive credit for this course.
—Visiting faculty
To be taken only for P/D/F.
1 point.

ENG BC 3193x, y
Critical Writing
The purpose of the course is to provide experience in the reading and analysis of literary texts and some knowledge of conspicuous works of literary criticism. Frequent short papers. Required of all majors before the end of the junior year. Sophomores are encouraged to take it in the Spring term even before officially declaring their major. Transfer students should plan to take BC 3193 in the Autumn term. —Staff
Registration in each section is limited.
4 points.
x: Sec. 1 M 4:10-6:00
Sec. 2 Tu 2:10-4:00
Sec. 3 W 4:10-6:00
Sec. 4 Th 2:10-4:00
Sec. 5 Th 4:10-6:00
y: Sec. 1 M 2:10-4:00
Sec. 2 Tu 2:10-4:00
Sec. 3 Tu 4:10-6:00
Sec. 4 W 4:10-6:00
Sec. 5 Th 2:10-4:00

CPE 3194
Critical and Theoretical Perspectives on Literature

y: 1. A History of Criticism
3 points. Not offered in 1995-96. *H*

2. Literary Theory
3 points. Not offered in 1995-96. *H*

3. Psychoanalytic Approaches to Literature
3 points. Not offered in 1995-96. *H*

x: 4. Postmodern Texts and Theory
Literary and theoretical postmodern texts and their revolutionary redefinition of certain fundamental concepts: the image, the word, pleasure, love, and the unconscious. —M. Jaanus
3 points. MW 11:00-12:15 *H*

ENG BC 3996x, y
Special Project in Theatre or Writing
Senior majors who are concentrating in Theatre or Writing and have completed two courses in writing or three in theatre will normally take the Special Project in Theatre or Writing (*3996x,y*) in combination with an additional course in their special field. This counts in place of one of the Senior Seminars. In certain cases, Independent Study (BC 3999) may be substituted for the Special Project.
Permission of the instructor and of the department chair is required.
1 point.

ENG BC 3997x, 3998y
Senior Seminars: Studies in Literature
Required of all majors, these seminars are designed to broaden knowledge of periods, writers, works, genres, and theories through readings, discussion, oral reports, and at least one significant research paper.
Written permission of the instructor required.
Enrollment limited to seniors.
4 points.

ENG BC 3997x

1. The Middle Ages: Images of Women
The cultural and literary construction of women in high medieval religious and chivalric narrative and verse. Some attention to historical context, the problematics of representation, female agency and power, and women as complex objects of desire and communal fantasy in light of a variety of contemporary critical approaches. Authors and texts include Chaucer, *Sir Gawain and the Green Knight*, Julian of Norwich, Margery Kempe, and Henryson. —T. Szell
W 2:10-4:00

2. Wit and Humor in the Renaissance
Jesting, laughter, and satire from Rabelais and Erasmus to Shakespeare and Donne. Joke collections. Parody. Bawdry. Wit as self-preservation and cultural commentary. —A. Prescott
Tu 4:10-6:00

3. The Eighteenth-Century Novel
Origins and development of the British novel. Topics include: historical and cultural influences, technical innovation and experimentation, the picaresque, the novel of sensibility, gothicism, recent theories of the development of the novel. Readings in Defoe, Richardson, Fielding, Sterne, Goldsmith, Mackenzie, Radcliffe, Horace Walpole, Austen. —A. Schneider
Th 4:10-6:00

4. Nineteenth-Century American Women Writers
In 1855, Nathaniel Hawthorne complained to his publisher that America was "wholly given over to a d--d mob of scribbling women." We will consider the literary productions of some of these women, with special attention to works that consider the status of women and the challenges facing women artists. Authors include Rowson, Fuller, Stowe, Stoddard, Alcott, Phelps, Dickinson, and Freeman. —L. Gordis
W 4:10-6:00

5. Victorian and Modern Drama
Drama in transition. Changing social structures and dramatic structures at the turn of the century. The relationship between convention and invention in the plays of George Bernard Shaw, Oscar Wilde, Arthur Piñero, Elizabeth Robins, Cicely Hamilton, and others. —P. Denison
Tu 2:10-4:00

6. Body and Language
An examination of major discourses on corporeality and the body's cultural significance. —M. Jaanus
M 2:10-4:00

ENG BC 3998y
Studies in Literature

1. Epic and Romance
Epic and romance, from the classical period to the 20th century, and study of their competition and mutual influence. Readings from *Beowulf*, *The Aeneid*, medieval romances, Spenser, Milton, English Romantic poets, the novel, science fiction. —C. Baswell
Th 2:10-4:00

2. Women in the English Renaissance
Socio-literary inquiry into the representation of women and gender in writings 1500-1700. Topics include humanist education, Protestant marriage, Petrarchan and Ovidian poetics, female monarchy, the *querelle des femmes*, women and radical evangelicism, Cartestian "feminism." Major figures include Elizabeth I, Cary, Wroth, Lanier, Speght, Philips, Behn, Evans & Cheevers, Fell Fox, Astell. —P. Loscocco
Tu 2:10-4:00

3. Crisis and Modernism
The rise of modernism in response to the crises in Western culture foreshadowed in the later 19th century. Authors include Tennyson, Hopkins, Strindberg, Ibsen, Nietzsche, Conrad, Freud, Woolf, T.S. Eliot, Breton, Beckett, and Pirandello. Contemporaneous critical, historical, and theoretical readings. —C. Plotkin
Tu 4:10-6:00

4. The City in Literature: London and New York
The city as subject, setting, and metaphor in Blake, Dickens, Conan Doyle, Woolf, Whitman, Wharton, Dos Passos, Petry, Doctorow, and others. —W. Sharpe
Th 4:10-6:00

5. The Family in Twentieth-Century American Fiction
A literary and theoretical examination of the changing historical, psycho-social, and narrative dynamics of the American family in the 20th century. Authors will include Wharton, Hopkins, Faulkner, Nabokov, Erdrich, Leavitt, and Barthelme. —J. Kassanoff
W 2:10-4:00

6. War and the Literary Imagination
Perceptions of problematic wars: glorification, questioning, rage, and despair. Male and female voices in drama, poetry, autobiography, and fiction. The Trojan War, British writing about World War I, and Vietnam. —C. Brown
W 4:10-6:00

ENG BC 3999x, y
Independent Study
Senior majors who wish to substitute Independent Study for one of the two required Senior Seminars should consult the department chair. Permission is given only to students who present a clear and well-defined topic of study, who have a department sponsor, and who submit their proposals well in advance of the semester in which they will register.
Permission of the instructor and of the department chair is required.
4 points.

ENVIRONMENTAL SCIENCE

328-334 Milbank Hall 854-5618

Associate Professor: Stephanie Pfirman (Chair)

Senior Lecturer: Peter Bower

Laboratory Associates: Joseph Liddicoat, Lila Hicks

Adjunct Professors: Roseanne D'Arrigo, Anthony Del Genio, Cynthia Rosenzweig, Martin Stute

Environmental Science provides a scientific basis for management of earth systems. It focuses on the interaction between human activities, resources, and the environment. As human population grows and technology advances, pressures on earth's natural systems are becoming increasingly intense and complex. Environmental Science is an exciting field where science is used to best serve society.

The curriculum recognizes the need for well-trained scientists to cope with balancing human requirements and environmental conservation. Majors acquire an understanding of earth systems by taking courses in the natural sciences, as well as courses investigating environmental stress. Students learn to critically evaluate the diverse information necessary for sound environmental analysis. Courses foster an interdisciplinary approach to environmental problem-solving.

Students are encouraged to participate in internships and field programs leading to preparation of their senior thesis. Opportunities are available for research projects with staff at research institutions in the New York area. Advanced students may also work as Teaching Assistants for the department.

REQUIREMENTS FOR THE MAJOR

I. Environmental Science BC 1001 and BC 1002; *Advanced Courses in Environmental Science* or another related science may be substituted for this requirement with permission of the chair.

II. At least one course in Chemistry and five other courses in the natural sciences (Biology, Chemistry, Geology or Physics). At least two of these must include labs.

III. Four courses to be selected from the following:

ENV BC 3014	*Field Methods in Environmental Science*
ENV V 3015	*The Earth's Carbon Cycle*
ENV BC 3016	*Environmental Measurements*
ENV BC 3017	*Environmental Data Analysis*
ENV BC 3019	*Energy Resources*
ENV BC 3021	*Forests and Environmental Change*
ENV BC 3024	*Oceanography*
ENV BC 3025	*Hydrology*
ENV BC 3030	*The Atmosphere: Meteorology and Air Pollution*
ENV BC 3031	*Climate: Present, Past, and Future*
ENV BC 3032	*Global Land Use and Habitability*
ENV BC 3033	*Waste Management*
ENV BC 3035	*Environmental Hazards and Disasters*
ENV BC 3040	*Environmental Law, Policy, and Decision-Making*
ECO BC 3039	*Natural Resources and Environmental Economics*

Graduating seniors are required to submit a thesis. This should be done in conjunction with the Environmental Science Senior Seminar ENV BC 3800. Environmental Research ENV BC 3997, 3998 may be used for extended thesis research investigations.

Majors in Environmental Science are encouraged to take courses in the social sciences in

order to become familiar with the languages and approaches of these disciplines to environmental issues.

REQUIREMENTS FOR THE MINOR

Five courses are required: Environmental Science BC 1001x, BC 1002y, and electives that form a coherent program in conjunction with the student's major field.

COURSES OF INSTRUCTION

For a complete, updated list of courses, consult the department at the beginning of the semester.

ENV BC 1001x, 1002y
Environmental Science I, II
Global and local capacities to satisfy human demands of land, water, energy, minerals, and waste disposal. *Fall term:* physical processes of the atmosphere, pedosphere, and lithosphere, and their vulnerabilities in human activities. Basic principles of ecology, the structure and function of ecosystem energy flow and nutrient cycling, rocks and minerals, weathering and erosion, solid waste and New York City, incineration, landfills, and recycling. Required laboratory sections involve sediment grain size analysis, owl pellet dissection, vole skeleton assembly, and compass pacing. *Spring term:* ecosystem analysis of local and global processes in the biosphere, geographic ecology, and biome classification. Environmental disturbances by agricultural and urban-industrial processes, remedial measures, and plans for a future sustainable ecology are considered. —P. Bower
Prerequisites: Passing grade on Quantitative Reasoning test or equivalent. Enrollment limited. Students must sign up for lab sections in 328b Milbank during the program planning period of the previous term. Laboratory fee: $30.
4.5 points. Lecture: M W 11:00-12:15
Laboratory: One session of 3 hours per week TBA.

ENV BC 3014x
Field Methods in Environmental Science
Problem-oriented field methods course provides hands-on experience with tools and observation methods in a variety of outdoor environments. Sampling and measurement techniques for air, water, soil, rock, flora, and fauna. Involves field and laboratory work, data interpretation and analysis. —P. Bower
Enrollment limited; permission of the instructor required.
3 points. F 10:00-1:00 plus 4 required field trips TBA.

ENV BC 3015y
The Earth's Carbon Cycle
The carbon cycle, with emphasis on how human activities perturb natural cycles.—W. Broecker
Prerequisites: Chemistry BC 1601 and Environmental Science BC 1001, BC 1002 or the equivalent or permission of the instructor. Alternate years.
3 points. Hours TBA.

ENV BC 3016x
Environmental Measurements
Modern methods used in analysis of environmental samples for monitoring and research purposes. Standard and advanced techniques of air, water, sediment, and soil analysis will be covered, including spectrometric and chromatographic methods. —P. Bower
Prerequisites: Chemistry BC 1601 or the equivalent and permission of the instructor. Enrollment limited to 8 students.
3 points. Lecture: Tu Th 12:10-2:00

ENV BC 3017y
Environmental Data Analysis
Analysis and interpretation of real-time and historical environmental data. Multidisciplinary approaches to environmental problem-solving. Acquisition and processing of environmental information, assessment of spatial and temporal variability, use of computers for analysis and display. —S. Pfirman, C. Rosenzweig
Prerequisites: One year college science or permission of the instructor. Alternate years.
3 points. Hours TBA.

ENV BC 3019x
Energy Resources
Energy sources, present and future demand, national and international resources. Environmental and policy implications of energy production and use. Present and potential use of fossil fuels (coal, oil, natural gas), nuclear fission, fusion, biomass, hydropower, wind, solar, and geothermal energy. —S. Pfirman
Prerequisites: One year college science or permission of the instructor. Alternate years.
3 points. Hours TBA.

ENV BC 3021y
Forests and Environmental Change
Prerequisites: One year college science or permission of the instructor.
3 points. Offered in 1996-97.

ENV BC 3024x
Oceanography
Prerequisites: One year college science or permission of the instructor. Alternate years.
3 points. Offered in 1996-97.

ENV BC 3025y
Hydrology
Prerequisites: One year college science or permission of the instructor. Alternate years.
3 points. Offered in 1996-97.

ENV BC 3030x
The Atmosphere: Meteorology and Air Pollution
Introduction to atmospheric science. Provides an understanding of basic processes controlling the structure and dynamics of the atmosphere, general atmospheric circulation, and weather. Present sources, transport, and effects of air pollution on regional and local scales. —A. Del Genio
Prerequisite: One year college science and mathematics through algebra, exponential functions, or permission of the instructor. Alternate years.
3 points. Hours TBA.

ENV BC 3031y
Climate: Present, Past, and Future
Earth's climate and how it has changed. Climate records from glacier and sediment cores, tree rings, stalagmites. Glacial-interglacial cycles. Potential impact of global warming on earth systems. Changing temperature, greenhouse gases, aerosols, sea level, rainfall, and their impact on food production, natural water, and ecosystems. —S. Pfirman
Prerequisite: One year college science or permission of the instructor. Major credit is not granted for both this course and GEY V 3008y: Climates of the Past. Alternate years.
3 points. Hours TBA.

ENV BC 3032x
Global Land Use and Habitability
3 points. Offered in 1996-97.

ENV BC 3033x
Waste Management
Liquid and solid waste management. Cradle-to-grave analysis of product and waste streams. Municipal solid waste, landfills, incineration and recycling, hazardous waste, sewage, and sewage treatment. Increase in waste generated by growing populations, international equity in generation and disposal of waste, public health, and environmental risks of different disposal methods. Restrictions on disposal options, rising disposal costs. —P. Bower
Alternate years.
3 points. Hours TBA.

ENV BC 3035x
Environmental Hazards and Disasters
Alternate years.
3 points. Offered in 1996-97.

ENV BC 3040x
Environmental Law, Policy, and Decision-making
Local to international environmental laws and development of environmental policy. Risk management, land-use planning, and the role of industry, academia, and government in environmental decision-making, economic analysis and policy making, the interplay of common and public law, environmental and toxic torts, and corporate law and contracts and property. Criminal law in environmental cases, environmental rights, wetlands, the Storm King controversy, endangered species and the Spotted Owl, air and water pollution.
—P. Bower
3 points. M W 1:10-2:25

ENV BC 3800y
Environmental Science Senior Seminar
Guided, independent, in-depth research culminating in the senior essay. Weekly seminar to review work in progress and share results through oral and written reports. Discussions of current events and career opportunities with presentations by students and guest speakers.
—S. Pfirman, J. Hays
Senior majors (juniors with permission of the instructor).
4 points. Th 4:10-6:00
This course provides credit for the senior thesis.

ENV BC 3997x, 3998y
Environmental Research
Advanced independent research under the supervision of a faculty member for the purpose of preparing the senior thesis. —Staff
Variable points. Permission of major adviser required. May be used in the Fall to prepare for ENV BC 3800y, or substitute for ENV BC 3800y in the case of January graduates. Hours TBA.

ENV BC 3999x, ENV BC 3999y
Problems and Projects in Environmental Science

Advanced laboratory and/or field studies for students who have adequate backgrounds to work independently with guidance from a member of the faculty. —Staff
Permission of the chair required. Does not provide major credit.
Variable points to a maximum of 6. Hours TBA.

Environmental Science-Philosophy
ESP BC 3025y
Ethics and Environment

A philosophical examination of the relationship between humanity and nature with focus on the moral justifications for environmental policies. Topics include: utility of the natural environment, responsibilities to future generations, and moral consideration of nature. Readings from several disciplines: philosophy, ecology, economics, political theory, and law. —Instructor TBA.
Limited to 25 students. Does not carry major credit.
3 points. Hours TBA.

The following courses offered by other departments at Barnard and Columbia are of special interest to students of Environmental Science. Students should consult the Barnard Environmental Science Department and check the Columbia Bulletin for more information on these and additional advanced-level courses.

B9201-18
Managerial Ecology

—J. Kuhn
Major credit is not granted for both this course and ECO BC 3039: Natural Resources and Environmental Economics.
3 points.

UAF 3200
Program Evaluation: Methods and Case Studies

—L. Barrington, R. McChesney
3 points.

GEY V 1001x, V 1401x
Dinosaurs and the History of Life

—P. Olsen
3-4 points.

GEY V 1011x, 1012y, V 1411x, 1412y
Introduction to Earth Sciences, I and II

—J. Mutter, C. Langmuir, J. Hays
3-4 points.

GEY V 1053y
Planet Earth

—R. Anderson, K. Kastens
3 points.

GEY V 3002y
The Design and Maintenance of a Habitable Planet

—Instructor TBA.
3 points.

GEY V 3008y
Climates of the Past

—W. Broecker
Major credit is not granted for both this course and ENV BC 3031y: Climate: Present, Past, and Future.
3 points.

GEY W 3010x, y
Field Geology

—Staff
1-3 points.

GEY W 3327y
Principles of Geomorphology

—M. Anders
3 points.

GEY U 4735x
Environmental Science for Policymakers

—W. Pittman, M. Stute
Permission of the chair required for major credit.
3 points.

INAF U 4733
Environmental Policy Practicum

—D. Downie, S. Pfirman
Does not provide major credit.
1 point.

FIRST-YEAR SEMINAR

401B Barnard Hall 854-2101

This program is supervised by the First-Year Seminar Committee:

Professor of Russian: Marina Ledkovsky

Professor of Political Science: Dennis Dalton

Professor of History: Rosalind N. Rosenberg

Associate Professor of Economics: Cecilia Conrad

Professor of English: James Basker (Director)

Instruction in the First-Year Seminar Program is provided by the following regular members of the Barnard College Faculty:

Professors: Randall Balmer (Religion), James Basker (English), Mark Carnes (History), Kandioura Dramé (French), Alfred Mac Adam (Spanish), Joseph Malone (Linguistics), Richard Pious (Political Science), Rosalind N. Rosenberg (History), Marcia L. Welles (Spanish)

Associate Professor: Benjamin Buchloh (Art History)

Adjunct Professor: Theresa Rogers (Sociology)

Adjunct Associate Professors: Elizabeth Swain (Theatre), Celia Deutsch (Religion)

Assistant Professors: Linda Barrington (Economics), Taylor Carman (Philosophy), Elizabeth Castelli (Religion), Peter Connor (French), Rachel McDermott (Asian & Middle Eastern Cultures), Alan Dye (Economics), Lisa Gordis (English), Erk Grimm (German), Catharine Nepomnyashchy (Slavic), Ann Pelligrini (Women's Studies), Peter Platt (English), Lesley Sharp (Anthropology), Herbert Sloan (History), Timea Szell (English)

Lecturers and Other Faculty: Vilma Bornemann Caraley (Spanish), Margaret Ellsberg (English), Steve Friedman (Theatre), John Pagano (English), Sanya Popović (Political Science), Agueda Rayo (Spanish)

Purpose and Structure

Every Barnard first-year student is required to take a First-Year Seminar during her first or second semester at Barnard. The purposes of the First-Year Seminars are threefold:

1. To develop further the essential and prerequisite skills a student brings to Barnard in the critical reading and analysis of important texts, in effective speaking, and in writing well —this last especially.
2. To develop these skills within an intellectually challenging context where students and teacher alike, through a close examination of important and relevant texts, engage in an extended consideration of a theme central to human concerns and which goes beyond departmental boundaries.
3. To develop these skills and encounter this intellectual challenge in a small-class setting with instruction by a regular member of the Barnard faculty who has chosen to participate in the program. As such, First-Year Seminars should provide entering Barnard students with an early sense of community.

Accordingly, all First-Year Seminars share a common structure:

- Each will meet twice a week in regularly scheduled class periods and earn 3 points.
- Each will have its enrollment limited to 20 or fewer students.
- Reading assignments will consist of a maximum of six book-length assignments or their equivalent (about 2,000 pages).
- Writing assignments will consist of a minimum of an assignment every other week. These assignments will vary in character (e.g., an assigned topic; a selected topic; reworking a previous assignment; editing the work of others) and length.
- The regular grading practices of the College will be followed. Upon completion of the

course, students will have an opportunity to evaluate their First-Year Seminar and to offer suggestions as to how it might be improved in subsequent offerings.

COURSES OF INSTRUCTION

The First-Year Seminar Program consists of thirty seminars, organized into five clusters:

I. Literary Reflections on the Human Condition
II. The Individual and the Social Order
III. Women in Literature and Culture
IV. Aspects of the Modern Condition
V. Cross-Cultural Encounters

These clusters identify thematic concerns or textual emphases common to more than one seminar, while reflecting varying levels of faculty collaboration that went into the development of the individual seminars. They are also intended to facilitate the process by which a student selects the seminar of her first or second choice. (Procedures for selecting First-Year Seminars are described in the First-Year Registration materials.)

I. LITERARY REFLECTIONS ON THE HUMAN CONDITION

Each of these seminars focuses on an enduring theme or genre through a close reading of texts drawn from the sweep of ancient and modern literature.

FSM BC 1116y
Women and the Fantastic in Literature

An examination of the fantastic in literature specifically as the topic relates to women's experience. Emphasis on the use of the fantastic to explore concepts of identity and human relationships, with special attention to sources in oral tradition and the creation and exploitation of myth and legend. Readings include:

Bruno Bettelheim, *The Uses of Enchantment*
Brothers Grimm, selected fairy tales
Mary Shelley, *Frankenstein*
Freud, *The Uncanny*
Toni Morrison, *Beloved*
Maxine Hong Kingston, *The Woman Warrior*
Stories by Tatiana Tolstaya, Selma Lagerlof, American Indian women, Zora Neale Hurston, and E.T.A. Hoffman.

—C. Nepomnyashchy, Slavic Department
Spring Tu Th 10:35-11:50

FSM BC 1133y
The Teratological Text: Representations of the Other as Monster

An examination of modern writers who have portrayed the human subject as monstrous, subhuman, demented, and fragmented. Emphasis will be placed on the issues of identity and difference, alterity and alienation. Readings include:

Shelley, *Frankenstein*
Mann, *Death in Venice*
Sir Gawain and the Green Knight
Sade, *Dialogue between a Priest and a Dying Man*
Hoffmann, *The Sandman*
Poe, selected tales
Wells, *The Island of Doctor Moreau*
Crane, *The Monster*
Lispector, *The Passion According to G. H.*
Kafka, *The Metamorphosis*

—P. Connor, French Department
Spring M W 11:00-12:15

FSM BC 1137x
The Summons to Adventure

Encounter with the marvelous and otherworldly as a call to adventure. The individual's quest for spiritual fulfillment, for recognition of and relationship to the agencies that shape human destiny. Transformations of romance and its reemergence in modern fantasy. Readings include *The Bacchae*, *Sir Gawain & the Green Knight*, *Hamlet*, romantic poetry, *Frankenstein*, *Alice in Wonderland*, *Their Eyes Were Watching God*, *The Woman Warrior*, Tolkien, Le Guin, Garcia Marquez. Paintings by Turner, Friedrich, Dore. —J. Pagano, English Department
Autumn Tu Th 4:10-5:25

FSM BC 1140y
Literary Madness

An examination of the controversy over current perceptions of insanity, defined by some as illness, by others as primarily a social construct. We will read several arguments about insanity and consider them as they illuminate and are illuminated by literary representations of madness. We will pay close attention to narrative strategies used to depict madness and to what these strategies suggest about social and psychological pathology. Readings include:

Shakespeare, *King Lear*
Bronte, *Jane Eyre*

Rhys, *Wide Sargasso Sea*
Gilman, *The Yellow Wallpaper*
Yamamoto, "The Legend of Miss Sasagawara."
—L. Gordis, English Department
Spring M W 9:10-10:25

FSM BC1143x
Moral Conflicts in Literature

Focuses on texts that deal directly with moral dilemmas, concentrating on conflicting moral codes and the role of language in their articulation and evaluation. Readings include: Sophocles, *Antigone*; Euripides, *The Bacchae; The Life of Lazarillo de Tormes;* Tirso de Molina, *The Trickster of Seville;* Toni Morrison, *Sula;* Dorothy Allison, *Bastard out of Carolina.*—M. Welles, Spanish Department
Autumn Tu Th 9:10-10:25

FSM BC 1144y
Race in the Early Modern Imagination

Focusing on representative English texts, this seminar examines how literature began to reflect ideas about "other" races, particularly Africans, and to develop moral and imaginative responses to historic issues such as slavery, imperialism, abolition, and repatriation, from the time of Shakespeare to the first British abolition bills of 1792 and 1807. Texts include Shakespeare, *The Tempest*; Aphra Behn, *Oroonoko*; Defoe, *Robinson Crusoe*; Johnson, *Life of Drake* and other writings; and the poetry of Phillis Wheatley, William Blake, Hannah Moore, and William Cowper; and the *Life of Olaudah Equiano*, among others.
—J. Basker, English Department
Spring M W 1:10-2:25

FSM BC1145y
Modes of the Marvelous

An examination of some of the theory and practice of the wonderful, the marvelous, the sublime, and the uncanny from Longinus to contemporary novels. We will try to determine what draws authors to ideas and fictions that challenge the normal, the rational, the everyday. Emphasis on both the content and form of these marvelous explorations. Readings include: Longinus, "On the Sublime" (selections); Montaigne "Of a Monstrous Child," and "Of Cripples"; Shakespeare, *The Winter's Tale*; Burke, *A Philosophical Enquiry into the Origin of Our Ideas of the Sublime and the Beautiful* (selections); Shelley, *Frankenstein*; James, "The Beast in the Jungle" and "The Jolly Corner"; Woolf, *Mrs. Dalloway,* Wideman, *Sent for You Yesterday;* Erdrich, *Love Medicine.* —
P. Platt, English Department
Spring Tu Th 9:10-10:25

FSM BC1146x
Women and War

Victims, warriors, collaborators, partisans, pacifists—women have historically played all these roles in relation to war. Examines how philosophers, tragedians, poets, novelists, and filmmakers have explored these roles and made various claims concerning the gendered character of war and peace. Readings will include selections from *The Odyssey* and *The Bible;* Euripides, *The Trojan Women;* Freud, *Civilization and Its Discontents;* Virginia Woolf, *Three Guineas;* Shizuko Go, *Requiem; and* writings by German women about the Third Reich, along with other modern texts and selected films. —E. Castelli, Religion Department
Autumn Tu Th 10:35-11:50

FSM BC1147x
Literature and Orality

Until this century, almost all literature was created to be read aloud. Classic and modern texts considered as physiological codes or mantras for the communication of specific emotional states and intellectual discoveries. Readings include Shakespeare's *King Lear,* the major odes of Keats, Whitman's *Song of Myself,* Carroll's *Alice in Wonderland*, Ginsberg's *Kaddish,* Plath's *Ariel,* and Beckett's *Waiting for Godot.* —
S. Friedman, Theatre Department
Autumn Tu Th 2:40-3:55

II. THE INDIVIDUAL AND THE SOCIAL ORDER

These seminars focus on the tensions between the claims of the individual to autonomy and the demands placed upon the individual by society.

FSM BC 1203x
The Crisis of Authority

An examination of the authority relationship between rulers and ruled, and its collapse. The seminar will consider how authority is accepted, confronted, confined, and reconstituted. Authors and readings include:
Orwell, *1984*
Plato, *The Republic*
Machiavelli, *The Prince*
Rousseau, *The Social Contract*
Martin Luther King Jr., Vaclav Havel, Sissela Bok, Adam Michnik, Cheryl Walker, Aung San Suu Kyi, and others.
—R. Pious, Political Science Department
Autumn M W 4:10-5:25

FSM BC 1220x
The Rebellious Woman

A study of dramatic texts in which women struggle with moral, economic, political, and intellectual problems, thereby challenging accepted norms of womanly behavior. The rebellions and compromises will be examined in light of selected documents of social and political thought. Readings include plays by Sophocles, Hroswitha, Shakespeare, Aphra Behn, Ibsen, Shaw, Brecht, Pam Gems, Adrienne Kennedy, and Simone Benmussa, and selections from Plato, Wollstonecraft, Mill, Marx, de Beauvoir, Woolf, and others. —E. Swain, Theatre Department
Autumn Tu Th 10:35-11:50

FSM BC 1228x
Ethnicity and Social Transformation

An examination of how Americans have imagined social hierarchies and ethnic identities, from the WASP-dominated society of the 1800s to the strong emergence of other ethnic groups in the 20th century. Authors include: Edith Wharton, F. Scott Fitzgerald, E. L. Doctorow, Bernard Malamud, Toni Morrison, Amy Tan, Louise Erdrich, Langston Hughes, Alice Walker, Faye Ng. —M. Ellsberg, English Department
Autumn M W 2:40-3:55

FSM BC 1233x
Gender and Justice

An examination of theories of moral rightness and their relationship to ideas about masculinity and femininity from ancient to modern times. Readings include: Plato, *The Republic;* Engels, *The Origin of Family;* Rousseau, *The Social Contract;* Mill, *Essays on Sex Equality;* Freud, *Civilization and Its Discontent;* MacKinnon, *Toward a Feminist Theory of State.*
—R. Rosenberg, History Department
Autumn M W 2:40-3:55

FSM BC 1239y
Principle and Pragmatism

An examination through time—in literary works, philosophic thought, and contemporary life—of the factors that influence individual choices when pragmatic interests conflict with moral principles or cultural values. Readings include:

Sophocles, *Antigone*
Shakespeare, *King Lear*
Pedro Calderon de la Barca, *Life Is a Dream*
André Gide, *The Immoralist*
Henry James, "The Liar"
Toni Morrison, *Sula*
Manuel Puig, *The Kiss of the Spider Woman*
Mary Gordon, *Final Payments*

Supplementary readings will include selections from *The Bible*, Plato, Aristotle, Niccolò Machiavelli, Miguel de Cervantes, Jeremy Bentham, Immanuel Kant, William James, John Dewey, and Sissela Bok.
—V. Bornemann Caraley, Spanish Department
Spring Tu Th 2:40-3:55

FSM BC 1241y
Equality

What do we mean when we speak of equality? How committed are we, as individuals, as a society, to achieving it? These and other relevant questions will be examined through a close reading of classic and modern texts. Readings include: Aristotle, *The Politics;* R. H. Tawney, *Equality;* Rousseau, *Discourse on the Origins of Inequality;* Burke, *Reflections on the Revolution in France;* Wollstonecraft, *Vindication of the Rights of Woman;* Franz Fanon, *The Wretched of the Earth;* Stephen Jay Gould, *The Mismeasure of Man;* and selected Supreme Court cases.
—H. Sloan, History Department
Spring M W 2:40-3:55

FSM BC 1242x
Conformity and Dissent

Social life requires some conformity to shared standards of value and conduct. How far is it possible to challenge those standards, and what are the consequences of doing so? Why do many traditions and institutions tend to be so resistant to criticism and revision? Examines a number of philosophical, scientific, and literary critiques of conformism and its often violent enforcement. Readings (and viewings) include:

Plato, *The Trial and Death of Socrates*
Wollstonecraft, *A Vindication of the Rights of Woman*
Flaubert, *Madame Bovary*
Marx & Engels, *The Communist Manifesto*
Kafka, *The Trial*
Gould, *The Mismeasure of Man*
Levi, *Survival in Auschwitz*
Claude Lanzmann, *Shoah* (excerpts)

—T. Carman, Philosophy Department
Autumn Tu Th 2:40-3:55

FSM BC 1243y
Slavery to Wages: Labor, Coercion, and Freedom

Throughout history societies have been innovative in how they have induced people to work, ranging from highly coercive systems—slavery and serfdom—to those based on individual liberties and free labor. Focusing on important texts of philosophy and social history, as well as contemporary writings in economics and literature, we will explore how the issue of free vs. coerced labor has descended to us in modern society. Readings from John Locke, Adam Smith, E. P. Thompson,

Maurice Lemoine, and Thomas Holt, among others. —A. Dye, Economics Department
Spring Tu Th 1:10-2:25

III. WOMEN IN LITERATURE AND CULTURE

An investigation into the ways in which women's experience has been imagined in literature and constructed in culture. Emphasis will be on female destiny and desire; rites of passage; modes of rebellion; possibilities and limits; knowledge, freedom, and duty; alternative visions and strategies. Attitudes toward myth, female sacrifice, courtship, marriage, motherhood, adultery, and work will be considered. Readings will include major works of Western and non-Western literature in the critical context of the new scholarship. Each seminar will draw approximately one-third of its readings from the following core list of writings:

Homer, *The Odyssey*
Sophocles, *Antigone*
Homeric *Hymn to Demeter*
Kalidasa, *Sakuntala*
William Shakespeare, *As You Like It*
Leo Tolstoy, *Anna Karenina*
Virginia Woolf, *A Room of One's Own*
Alice Walker, *The Color Purple*
Lyric Poetry by Sappho, early Buddhist nuns, Anna Akhmatova, Sylvia Plath, Adrienne Rich, Audre Lorde
Selected essays by Nancy Chodorow, Carol Gilligan, Sherry Ortner

FSM BC 1309x
Women in Literature and Culture

Special texts:
Jeanette Winterson, *The Passion*
Zora Neale Hurston, *Their Eyes Were Watching God*
Chaucer, "Wife of Bath's Tale"
Maxine Hong Kingston, *The Woman Warrior*
Toni Morrison, *Beloved*
selections from Christine de Pizan and Marie de France
Anna Deavere Smith, *Fires in the Mirror*
—T. Szell, English Department
Autumn Tu Th 1:10-2:25

FSM BC 1312y
Women in Literature and Culture

Special texts:
Isabel Allende, *The House of the Spirits*
Toni Morrison, *Beloved*
Cafer, *The Line of the Sun*
Selections from Latin American women poets
—A. Rayo, Spanish Department
Spring M W 4:10-5:25

FSM BC 1313y
Women in Literature and Culture

Special texts:
The Bible
Toni Morrison, *Beloved*
Maxine Hong Kingston, *The Woman Warrior*
Leslie Silko, *Ceremonies*
Anzia Yezierska, *Bread Givers*
Anaya, *Bless Me, Ultima*
—C. Deutsch, Religion Department
Spring M W 2:40-3:55

IV. ASPECTS OF THE MODERN CONDITION

These seminars are concerned with the different ways literary artists portray and social critics analyze the contemporary Western world. Readings include works of fiction, biography, and social theory.

FSM BC 1401y
The Modern Idea of Freedom

An examination of texts, from the 17th to the 20th centuries, which constitute a meditation on the relationship of language to freedom and on the individual's freedom to express his individuality in the language everyone else uses. Readings include:

Pedro Calderon de la Barca, *Life Is a Dream*
Jonathan Swift, *Travels into Several Remote Regions of the World (Gulliver's Travels)*
Jorge Luis Borges, *Tlong, Uqbar, Orbis Tertius*
Thomas Pynchon, *The Crying of Lot 49*
—A. MacAdam, Spanish Department
Spring Tu Th 10:35-11:50

FSM BC 1412y
Illness and Society

Analysis of the experience of illness and of the social and ethical values surrounding it. Eastern and Western literature is read for an understanding of the responses to illness by the patient, family, friends, and physicians. Class discussion will extend to the role of self-help efforts, of nutritional, herbal, and holistic approaches to care. Texts include:

Tolstoy, *The Death of Ivan Ilyich*
Mann, *The Magic Mountain*
Camus, *The Plague*
The Book of Job
Rong, *At Middle Age*
—T. Rogers, Sociology Department
Spring M W 1:10-2:25

FSM BC 1425y
The Politics of Identity

An examination of the quest by individuals and groups to (re)gain their ethnic, racial, and religious identities, with a focus on methods of empowerment, group affirmation, and the potentially destructive consequences of such assertion of identity. Cases to be examined: Civil Rights/Black Power in the U.S.; Gandhi's non-violence vs. continuing ethnic violence in India; The Palestinian/Israeli conflict in the Middle East; the role of women in separatist/terrorist movements. Readings include:

Gandhi, *Non-Violence in Peace and War*
Bhagwat Charan, "The Philosophy of the Bomb"
Toni Morrison, *The Bluest Eye*
The Autobiography of Leila Khaled
Adolf Hitler, *Mein Kampf*
Malcolm X Speaks
Eileen MacDonald, *Shoot the Women First*
Eric Hobsbawm, *Nations and Nationalism*
Benedict Anderson, *Imagined Communities*

—S. Popovič, Political Science Department
Spring M W 11:00-12:15.

FSM BC 1430x
Technology and Society

An examination of the ethical dilemmas surrounding technological change and "advancement" in a variety of cultural settings. What is the social price of technological efficiency? How do new medical technologies affect definitions of what it means to be "human"? How do our current fears shape futuristic visions in science fiction? Topics include: electronic media; robotics; virtual reality; assembly line work; organ transplantation; surrogate motherhood; and war in the atomic age. Key texts are:

Margaret Atwood, *The Handmaid's Tale*
Samuel Beckett, *Endgame*
Jane Dibblin, *The Day of Two Suns: U.S. Nuclear Testing and the Pacific Islanders*
William Gibson, *Neuromancer*
Lincoln Keiser, *Friend by Day, Enemy by Night: Organized Vengeance in a Kohistani Community*
Karl Marx and Fredrich Engels, *The Communist Manifesto.*

—L. Sharp, Anthropology Department
Autumn M W 9:10-10:25

FSM BC 1431x
Modernism and the City

The focus is on texts that present human interaction as shaped by life in towns and cities. Examines the relation of narrative space to such social differences as gender, race, and class. Discusses the modes of representing the "other" in the fictional world. Readings include works from Western and non-Western literature:

Margaret Youcenar, *Two Lives and a Dream*
George Orwell, *Down and Out in Paris and London*
Franz Kafka, *Amerika*
Herman Hesse, *Steppenwolf*
Nadine Gordimer, *A World of Strangers*
Philippe Soupault, *Last Nights of Paris*
and excerpts from Assia Djebar, *Women of Algiers in Their Apartment* and Jane Jacobs, *The Death and Life of Great American Cities*

—E. Grimm, German Department
Autumn M W 1:10-2:25

FSM BC 1432y
Modernity and the Visual Arts

Examines works of art from the 1860s to the 1980s, and classical and recent texts in art criticism and art theory, to explore the function of visual art in modernity. Beginning with Baudelaire and Ruskin, through contemporary feminist and structuralist critiques of modernism, topics will include English and Soviet Formalism, Marxist and psychoanalytic critiques of 20th-century art, and the post-war development of American Formalism. Other readings from Fry, Bell, Jakobson, Benjamin, Nochlin, and Greenberg, among others.

—B. Buchloh, Art History Department
Spring Tu Th 4:10-5:25

V. CROSS-CULTURAL ENCOUNTERS

These seminars consider imaginative and analytic efforts by one culture to comprehend aspects of another culture, thereby making them conscious instances of such efforts.

FSM BC 1518x
Communication and Pseudo-communication through Language

Communicational successes and failures across groups of humans. Literature by and about the oppressed, the disinherited, the marginalized. Critical analysis of language abuses innocently or maliciously apt to foment prejudice, paranoia, or at the very least misunderstanding. Readings include portions of:

Louise Erdrich, *Love Medicine*
S.I. & A. R. Hayakawa, *Language in Thought and Action*
Oscar Hijuelos, *The Fourteen Sisters of Emilio Montez O'Brien*
Joseph Malone, *The Science of Linguistics in the Art of Translation*
Kate Millet, *The Loony-Bin Trip*
Toni Morrison, *The Bluest Eye*
Bharati Mukherjee, *The Tiger's Daughter*
Bernard Shaw, *Saint Joan*

R.A. Sasaki, *The Loom and Other Stories*
Deborah Tanner, *You Just Don't Understand*
—J. Malone, Linguistics Department
Autumn Tu Th 1:10-2:25

FSM BC 1526y
Perspectives on America
A survey of various perspectives on the United States—historical, sociological, geographic, and cultural—drawing on fiction, essays, films, history, and the vast genre of American travel literature. Readings include: John Berendt, *Midnight in the Garden of Good and Evil;* H.G. Bissinger, *Friday Night's Lights: A Town, a Team, and a Dream;* Madeleine Blais, *In These Girls, Hope Is a Muscle;* Joan Didion, *Slouching Towards Bethlehem;* Pam Houston, *Cowboys Are My Weakness;* Robert Pirsig, *Zen and the Art of Motorcycle Maintenance;* Peter Guralnick, *Last Train to Memphis: The Rise of Elvis Presley;* Movie: *A River Runs Through It.*
—R. Balmer, Religion Department
Spring Tu Th 1:10-2:25

FSM BC 1530y
Women and Religion
An examination of several religious traditions with attention to the various historical, theological, and ideological roles women have played. The course seeks to provide information about a number of major religious traditions from the perspective of women, and an enhanced understanding of the relationship between religion, culture, and gender issues. Readings include: Carmody, *Women and World Religions*; *Womanspirit Rising: A Feminist Reader in Religion*; Jacobson, Doranne, and Wadley, *Women in India: Two Perspectives*; Kingston, *The Woman Warrior*; Murcott, *The First Buddhist Women: Translations and Commentary on the Therigatha*; Judith Plaskow and Carol Christ, *Weaving the Visions: New Patterns in Feminist Spirituality.*
—R. McDermott, Asian & Middle Eastern Cultures Department
Spring M W 9:10-10:25

FSM BC 1531y
Native American Experience: Columbus to Casinos
Explains aspects of Native American experience in historic and artistic contexts—and as a contemporary phenomenon—especially as dramatized in the on-going contact with European civilization. Readings from economic and historical texts, as well as works of literature, and selected films.
—L. Barrington, Economics Department
Spring Tu Th 2:40-3:55

FSM BC 1532x
Immigration, Displacement, and Exile
An examination of literary and artistic works on the issues of African displacement, exile, and immigration from the Atlantic slave trade to the post-colonial era. Special reference to paintings and films on these issues. Readings include: Buchi Emechete, *Second Class Citizen;* George Lamming, *The Pleasures of Exile;* Ezekiel M'Phalele, *The Wanderers;* Alioum Fantuore, *Tropical Circle;* Alex Haley, *Roots;* Derek Walcott, *The Arkansas Testament;* Elizabeth Hutton Turner, *Jacob Lawrence: The Migration Series.*
—K. Dramé, French Department
Autumn Tu Th 4:10-5:25

FSM BC 1533y
Confessional Culture from Augustine to Oprah
Traces the different uses and forms the confession has taken in Western culture. Particular emphasis will be set on considering how the confession is both gendered and engendering. What can we learn from the differences and similarities between these confessional modes, their cultural locations, and their historical moments? If confession is a "talking cure," what is the confession supposed to cure? And whom? Texts include: Augustine, *Confessions*; Freud, "Fragment of an Analysis of a Case of Hysteria;" Michel Foucault, *History of Sexuality, Vol. 1*; James Hogg, *The Private Memoirs and Confessions of a Justified Sinner*; Bell Hooks, *Sisters of the Yam: Black Women and Self-Recovery*; Pauline Reage, *The Story of O*; Rousseau, *Confessions;* and excerpts from celebrity autobiographies and films. —
A. Pelligrini, Women's Studies Department
Spring Tu Th 4:10-5:25

FSM BC 1534x
Utopias: Imaginary Ideals and Social Realities
Considers the utopian vision of philosophers such as Plato, *The Republic;* Confucius, *The Analects;* Rousseau, *The Social Contract;* Anne Hutchinson (trial transcripts); and Charlotte Perkins Gilman, *Herland;* and examines attempts to make those visions tangible in historical contexts ranging from Ming Dynasty China to America in the late 20th century. The central theme is the relation of visionary philosophy to society.
—M. Carnes, History Department
Autumn M W 2:40-3:55

FOREIGN AREA STUDIES

415A Lehman Hall 854-5938

This program is supervised by the Committee on Foreign Area Studies:

Professor of Anthropology: Abraham Rosman

Professor of French: Serge Gavronsky

Assistant Professor of History: Deborah Valenze

deBary Associate Professor in Asian & Middle Eastern Cultures: Irene Bloom

Assistant Professor of Slavic: Catharine Nepomnyashchy

Assistant Professor of Spanish: Isolina Ballesteros

Professor of German: Gertrud M. Sakrawa

The purpose of Foreign Area Studies is to provide an introduction to the study of a foreign region of the world. Foreign Area Studies majors are encouraged to study abroad in the region of interest. The work is divided into three elements: language, a scholarly discipline, and a diversified approach to a region. The student who wishes to major may choose one of the regions listed below. The courses named under each region include only those most commonly elected. Other courses may be chosen upon approval of the project by an adviser.

REQUIREMENTS FOR THE MAJOR

A major in Foreign Area studies is open to qualified students whose applications are approved by the committee in charge. First-year students and sophomores anticipating such a major should consult their class advisers and the officer in charge by March 1 of the sophomore year.

The senior requirements vary according to the region studied. Majors should consult their advisers for details.

There is no minor in Foreign Area Studies.

Asian and Middle Eastern Cultures (*Adviser:* Irene Bloom) See page 81.

European Studies (*Adviser:* Deborah Valenze)

Students may focus on one country or one region of Western Europe. Competence in the language of the region is expected. The major includes:

A. A concentration consisting of five courses in an academic discipline in the Social Sciences chosen in consultation with the major adviser. A maximum of two of these courses that deal with European topics may be counted among the ten courses in the regional concentration (Part B).

B. Ten courses focusing on a country or region to include:
Two courses in European History;
Two courses in the literature or cultural studies of one country in the original language;
Two semester senior projects under the direction of the program adviser or an adviser in the minor field;

Four courses outside the field of concentration dealing with the selected country or region.

The following list is only a sample selection of courses that may be applied to the major.

Anthropology V 10105y	*Multiculturism: Ways of Looking at Other Cultures*
Anthropology V 3028	*Cultural Contact: Archeological Ethnohistorical Approaches*
Anthropology V 3100	*Anthropology of Urban Life*
Anthropology V 3038	*Ethnicity and Race*
Art History V 3475	*Art and Culture of the Northern Renaissance*
Art History BC 3521	*Seventeenth-Century Painting and Public Life in the Lowlands, 1580-1700*
Economics BC 3030	*Comparative Economic Systems*
Economics BC 3041	*Theoretical Foundation of Political Economy*
History BC 1011, 1012	*Introduction to European History (recommended as prerequisites for other history courses)*
History BC 3005	*Nationalism in 20th-Century Europe*
History BC 3039	*The Civilizing Process*
History BC 3410	*The City in Europe*
History BC 3433	*European Welfare State and the Family, 1919-1980*
Political Science BC 3007	*Modern Political Movements*
Political Science BC 3013, 3014	*Political Theory*
Political Science V 3505	*Introduction to Comparative Politics*
Religion V 1101	*Introduction to the Study of Western Religion*
Religion V 3501	*18th- and 19th-Century Religious Thought*
Sociology V 3100	*Introduction to Social Theory*
French courses in Culture and Literature.	*See French, page 158.*
German courses in Culture and Literature.	*See German, page 167.*
Italian courses in Culture and Literature.	*See Italian, page 179.*
Spanish courses in Culture and Literature.	*See Spanish, page 250.*

French Studies (*Adviser:* Serge Gavronsky)

German Studies (*Adviser:* Sigrid Berka)

Latin American Studies (*Adviser:* Licia Fiol-Matta)
See Department of Spanish and Latin American Cultures, page 250.

Russian Regional Studies (*Adviser:* Catharine Nepomnyashchy)

The major consists of four years of Russian language and a reading knowledge of Russian adequate for research in the Senior Seminar and eight courses distributed in the following subjects:

Two courses in Russian or Soviet literature (in translation or in Russian);
Two courses in Russian history;
One course on Russia or the Soviet Union (history, geography, sociology, economics, literature in translation or in Russian, etc.);
One course in Soviet/post-Soviet politics; and
Two semesters of a senior research seminar with research to be conducted predominantly in Russian language sources.

Spanish Studies (*Adviser:* Isolina Ballesteros)

FRENCH

314 Milbank Hall 854-2052

Professors: Kandioura Dramé (Henry R. Luce Professor of Migration and Social Order), Serge Gavronsky (Chair), Renée Geen

Assistant Professors: Catharine Randall, Peter T. Connor[1]

Lecturer: Anne Boyman

Associate: Isabelle Jouanneau-Fertig

Instructors: Vandana Gupta, Anne Protopappas, Rosie S. Reiss, Isabelle Étienne

[1]Absent on leave Autumn term

Courses in the French Department have a twofold objective: to perfect fluency in the written and spoken language, and to develop an understanding and appreciation of the literature and culture of France and French-speaking countries.

New students who have already given evidence of advanced training in French (Advanced Placement Examination with a score of 4 or 5; CEEB examinations with a score of 750) may automatically be exempted from the language requirement. All other new students who intend to satisfy their requirement in French will, depending upon their preparation, be placed immediately in the appropriate language course or be asked to take a placement test offered at the start of each semester (see College Calendar for exact dates). Those receiving a sufficiently high grade fulfill the requirement. The others may do so by completing French BC 1204. For additional information about language courses, students should consult the department chair.

Students who have satisfied the language requirement may immediately enroll in literature and culture courses conducted entirely in French (BC 3020, BC 3021, BC 3022, BC 3023, BC 3024); courses in which the readings are in French and English with lectures, discussions, and papers in English (BC 3046, BC 3047, BC 3048, BC 3049); and advanced language courses (BC 3007-3019).

In cooperation with Columbia College, the department offers a program at Reid Hall in Paris open to majors and non-majors. See Study Abroad, page 43.

The department holds many of its advanced classes in a special seminar-library, the French Room (306 Milbank).

REQUIREMENTS FOR THE MAJOR

All majors are required to take the Junior French Test, a short-answer examination on literary history, literary terminology, and translation. Majors will take the Major Examination, a written critical essay on a prepared question, and an individual oral *explication de texte*.

Students enrolled in the Senior Essay will take the written part of the Major Examination. The defense of the essay constitutes the oral section of the Major Examination.

Majors who plan to do graduate work are encouraged to acquire a reading knowledge of Latin and German.

There are three majors available to prospective students in the department:

Language and Literature: This program emphasizes language, culture, and literature of the country.

Translation and Literature: This program perfects students' abilities to translate from French into English and English into French, together with a knowledge of French culture and literature.

French Studies: This program emphasizes the socioeconomic, political, and historical aspects of language studies as well as the cultural and literary aspects of France and Francophone countries.

In consultation with the adviser of her choice, the student majoring in French may select

one of the following options:

Language and Literature

10 courses are required for the major:
FRE BC 3021, BC 3022 or BC 3023, BC 3024
Two language courses chosen from FRE BC 3013-3019
Two literature courses chosen from BC 3031-3036 and three courses chosen from 3037-3043
One-term seminar numbered BC 3052, a Senior Essay, or a sixth literature course.

Translation and Literature

10 courses are required for the major:
FRE BC 3021, BC 3022, or BC 3023, BC 3024
Three language courses chosen from FRE BC 3014-3017
Four one-term literature courses chosen from the following: BC 3031-BC 3043
One-term seminar numbered BC 3053 or a Senior Essay in Translation.

French Studies

11 courses are required for the major:
FRE BC 3021, BC 3022 or BC 3023, BC 3024
Two language courses chosen from FRE BC 3007-BC 3017
Five one-term Advanced Literature and Culture courses numbered FRE BC 3031-3049
Two one-term courses related to aspects of French Studies in Humanities or Social Sciences selected in consultation with the major adviser.

The student is expected to declare her option by the end of the junior year. Programs may include additional courses in French literature, culture, and language, or in other subjects which vary with the interest of the student. Certain courses in the French and Romance Philology Department at Columbia University may be substituted with the approval of the chair.

A student who elects French as part of a combined double or interdisciplinary major will establish her individualized program with the departments concerned.

REQUIREMENTS FOR THE MINOR

Seven courses are required for a minor:
FRE BC 3021, BC 3022, or BC 3023, and BC 3024
Two language courses chosen from: FRE BC 3007-BC 3017
Three literature and culture courses chosen from: FRE BC 3031-BC 3049

COURSES OF INSTRUCTION

LANGUAGE COURSES

For satisfactory completion of the language requirement, student with a C- or below average will have to repeat the course.

FRE BC 1001x, 1002y
Elementary Full-Year Course

Basic elements of French grammar. Oral, writing, and reading skills. —Staff
4 points. Students may take either or both of these courses at Columbia.
Sec.1 M Tu W Th F 9:00 x: R. Reiss, y: V. Gupta
Sec. 2 M Tu W Th F 10:00 x: R. Reiss
y: A. Protopappas
Sec. 3 M Tu W Th F 12:00 x: V. Gupta
y: A. Protopappas

FRE BC 1102x
Review of Elementary French

Oral and written review of basic grammar and syntax. Reading in modern literature and Francophone literature, free composition, translation. One hour of oral drill is required. —Staff
Course chair: A. Protopappas.
Primarily for students who need further instruction to

qualify for the intermediate course. Credit cannot be granted for both BC 1102 and BC 1002 (or its equivalent). Enrollment limited to 20 students per section.
3 points.
Sec. 1 M W F 10:00 —I. Étienne
Sec. 2 M W F 11:00 —A. Protopappas
Sec. 3 Tu Th 10:35-11:50 —I. Jouanneau-Fertig

FRE BC 1201x
Intermediate Conversation
A one-point course intended to improve students' oral proficiency through individual presentations, group projects, and exercises in vocabulary building.
Prerequisite: Satisfaction of Elementary French. This course does not satisfy the language requirement.
1 point. Sec. 1 M 10:00 —A. Protopappas
Sec. 2 W 10:00 —A. Protopappas
Sec. 3 F 10:00 —A. Protopappas

FRE BC 1202y
Writing Workshop
A one-point course intended to improve students' writing skills through creative and analytic short papers based on literary and topical assignments.
Prerequisite: Satisfaction of Elementary French. This course does not satisfy the language requirement.
1 point. Not offered in 1995-96.

FRE BC 1203x, y
Intermediate Course I
Further development of oral and written communication skills. Literary analysis, expository compositions, and *explication de texte*. Readings from modern French and Francophone literatures. —Staff
Course chair: —I. Jouanneau-Fertig
Prerequisites: BC 1001x, BC 1002y, BC 1102x, C 1101-C1102, or an appropriate score on the placement test.
3 points.
x: Sec. 1 M W F 11:00 —V. Gupta
Sec. 2 M W F 12:00 —R. Reiss
Sec. 3 Tu Th 1:10-2:25 —I. Jouanneau-Fertig
Sec. 4 Tu Th 2:40-3:55 —I. Jouanneau-Fertig
y: Sec. 1 M W F 10:00 —I. Étienne
Sec. 2 M W F 11:00 —A. Protopappas
Sec. 3 Tu Th 10:35-11:50 —R. Reiss
Sec. 4 Tu Th 1:10-2:25 —C. Randall

FRE BC 1204x,y
Intermediate Course II:
French through Literary Analysis
More advanced work in language skills. Emphasis on literary analysis and *explication de texte*. Readings taken from literature of the Renaissance to the modern period. —Staff
Course Chair: A. Boyman
Prerequisite: BC 1203 or an appropriate score on the placement test.
3 points.
x: Sec. 1 M W F 10:00 —A. Boyman
Sec. 2 M W F 11:00 —A. Boyman
Sec. 3 Tu Th 10:35-11:50 —C. Randall
Sec. 4 Tu Th 1:10-2:25 —I. Étienne
y: Sec. 1 M W F 11:00 —V. Gupta
Sec. 2 M W F 12:00 —V. Gupta
Sec. 3 Tu Th 1:10-2:25 —I. Jouanneau-Fertig
Sec. 4 Tu Th 2:40-3:55 —I. Jouanneau-Fertig

FRE BC1306 y
Composition and Conversation
Weekly compositions designed to improve writing skills and to correct grammar and syntax. Pronunciation, vocabulary development.
—I. Jouanneau-Fertig
3 points. Tu Th 11:00-12:15

FRE BC 3007y
Commercial-Economic French
The socioeconomic language of contemporary French society. Practice of oral and written communications based on documents from the French press. Students who have completed the course may wish to take the Certificate given by the Chambre de Commerce et d'Industrie de Paris.
3 points. Not offered in 1995-96.

FRE BC 3013x
Advanced Composition and Grammar Review
Systematic study of morphology, syntax, and idiomatic expressions. Weekly writing assignments. —R. Geen
3 points. M W F 11:00

FRE BC 3014y
Advanced Translation: Literary Texts
Translation of various styles of prose and poetry from French to English. —A. Boyman
3 points. Tu Th 10:35-11:50

FRE BC 3015x
Advanced Translation into French
Specific techniques of translation will be studied and applied to various texts (prose, poetry, theatre) and contexts (advertisements, cartoons, song lyrics, subtitles) in order to increase awareness of linguistic resources and expressive possibilities.
—R. Geen
Prerequisite: Satisfaction of the language requirement or the equivalent.
3 points. M W F 10:00

FRE BC 3016y
Advanced Conversation
Spoken French stressing fluency and acquisition of new vocabulary. Practice in phonetics. Conversations, debates based on newspaper articles, and dramatic readings.

Prerequisite: Satisfaction of the language requirement or the equivalent.
3 points. Not offered in 1995-96.

FRE BC 3017y
Advanced Translation: Non-literary Texts
Translation of various non-literary styles of prose taken from historical, critical, philosophical, and other sources. —A. Boyman
Prerequisite: Satisfaction of the language requirement or the equivalent.
3 points. Not offered in 1995-96.

FRE BC 3019y
Advanced Phonetics
A detailed study of the major rules of French pronunciation; theoretical linguistic concepts will be followed up with intensive oral drills. —A. Boyman
Prerequisite: Satisfaction of the language requirement or the equivalent.
3 points. Tu Th 1:10-2:25

LITERATURE COURSES

For nonmajors the literature courses listed in this section will count toward the general requirement. Courses BC 3047, BC 3048, and BC 3049 are conducted in English.

FRE BC 3020x
Special Themes in Modern French Culture and Literature

8. Surrealism in Painting and Film
Surrealism from its initial critique of the status quo to its recuperation in fashion photography and advertisement. Topics include the politics of sexuality and eroticism; the nature of the pictorial and filmic image, and the rhetoric of narration. —S. Gavronsky
Prerequisite: Satisfaction of the language requirement in French. Enrollment is limited to 30 students.
3 points. Tu Th 10:35-11:50

9. War and Memory: The Impact of World War II in France
An examination of the events of World War II as well as French culture during and after the war as it relates to the political ideologies of the time. Texts range from historical documents, pamphlets, and speeches to literature and films. Readings include Céline, Sartre, Duras, De Gaulle, Pétain, and others. —R. Reiss
Prerequisite: Satisfaction of the language requirement or the equivalient. Enrollment is limited to 30 students.
3 points. Tu Th 2:40-3:55 *III H*

FRE BC 3022y
Masterpieces of Literature from the Middle Ages to the 20th Century
Spring term: The Age of Enlightenment, Romanticism, Realism, and Symbolism. French BC 3021 may be taken for credit without completion of French BC 3022. —R. Geen
Prerequisite: Satisfaction of the language requirement or the equivalent.
3 points. Tu Th 1:10-2:25 *H*

FRE BC 3021y
Masterpieces of Literature from the Middle Ages to the 20th Century I
Equivalent of Course BC 3021x but given in the Spring term.
Prerequisite: Satisfaction of the language requirement or the equivalent.
3 points. Not offered in 1995-96.

FRE BC 3022x
Masterpieces of Literature from the Middle Ages to the 20th Century II
Equivalent of BC 3022y but given in the Autumn term.
3 points. Not offered in 1995-96. *H*

FRE BC 3023x
The Culture and Institutions of France
An historical analysis of *mentalités* from the Middle Ages through the reign of Louis XIV through symbol, structure, and self-presentation. Class discussion will center on artifacts, images, and allegories in cathedral windows, coats of arms, and the palace of Versailles. Readings include cultural and institutional documents, *Le Retour de Martin Guerre*, essays by Montaigne, and contemporary critical writings by Darnton, Barthes, and Braudel. —C. Randall
Prerequisite: Satisfaction of the language requirement or the equivalent.
3 points. Tu Th 2:40-3:55 *H*

FRE BC 3024x
The Culture and Institutions of France
The major cultural and institutional foundations of France from the Age of Enlightenment through the student revolts in 1968. Topics include: the *Encyclopédistes*, the French Revolution, the rise of socialism, *l'Affaire Dreyfus*, decolonization, and May 1968.
Prerequisite: Satisfaction of the language requirement or the equivalent.
3 points. Not offered in 1995-96. *H*

FRE BC 3031x
The Middle Ages
Development and evolution of literary expression in France from the Crusades through the

High Middle Ages.
Prerequisite: Satisfaction of the language requirement or the equivalent.
3 points. Not offered in 1995-96. *H*

FRE BC 3032x
Women and Writing in Early Modern France
Examination of cultural and literary phenomena in 15th–17th century France, focusing on writings by women and about women. Authors include Rabelais, Marguerite de Navarre, Des Périers, Boaisteau, La Fontaine, and others. —C. Randall
Prerequisite: FRE 3021, 3022, 3023, 3024, or permission of the instructor.
3 points. Not offered in 1995-96. *III H*

FRE BC 3033y
Crisis in Early Modern Literature
Examination of varieties of poetic and prose literature from 15th-17th century France, including 16th century cartoons; reading of travel manuals; women's writing; and literature on hermaphrodites and transvestites. Discussion of the relationship between fiction and nonfiction, writer and world. —C. Randall
Prerequisite: FRE BC 3021, 3022, 3023, 3024 or permission of the instructor.
3 points. Tu Th 2:40-3:55 *III H*

FRE BC 3034x
French Classical Literature and Culture
Focus on the literature and culture of the 17th century.
Prerequisite: BC 3021, BC 3022, BC 3023, BC 3024, or the equivalent.
3 points. Not offered in 1995-96. *III H*

FRE BC 3035y
Eighteenth-Century French Fiction
Courses and discourses of the heroine in selected 18th-century novels. The rise of the harlot, the tribulations of the orphan, the fall of the noblewoman, and the revenge of the betrayed.
Prerequisite: BC 3021, BC 3022, BC 3023, BC 3024, or the equivalent.
3 points. Not offered in 1995-96. *H*

FRE BC 3036y
The Age of Enlightenment
The challenge of traditional ideas on government, religion, ethics, and aesthetics in 18th-century France. The role of women and the importance of salons, the press, and the *Encyclopédie* in the dissemination of ideas. Authors include Fontenelle, Bayle, Montesquieu, Voltaire, Diderot, Rousseau, Sade, and Condorcet. —R. Geen
Prerequisite: BC 3021, BC 3022, BC 3023, BC 3024, or the equivalent.
3 points. Tu Th 10:35-11:50 *H*

FRE BC 3037x
Nineteenth-Century French Poetry
Poems by Lamartine, Hugo, Baudelaire, Rimbaud, and Mallarmé. Readings will focus on the turn from Romanticism to Modernism in the 19th century. —A. Boyman
Prerequisite: BC 3021, BC 3022, BC 3023, BC 3024, or the equivalent.
3 points. Not offered in 1995-96. *H*

FRE BC 3038y
The Nineteenth-Century French Novel
Evolution of the novel, aesthetics of Romanticism, Realism, Naturalism, and Symbolism. Particular attention is paid to the formal problems of narrative, the rhetoric of sentiment, *décadence*, and issues of sexual identity.
Prerequisite: BC 3021, BC 3022, BC 3023, BC 3024, or the equivalent.
3 points. Not offered in 1995-96. *H*

FRE BC 3039x
Twentieth-Century French Theatre
Tradition and innovation in major French dramatists including Giraudoux, Anouilh, Claudel, Ionesco, Genet, and Beckett. —R. Geen
Prerequisite: BC 3021, BC 3022, BC 3023, BC 3024, or the equivalent.
3 points. Not offered in 1995-96. *H*

FRE BC 3040y
Twentieth-Century French Fiction
Topics will include the theory of the gratuitous act, literature and the rise of Fascism, war and the literature of commitment, erotic violence. Authors include Gide, Mauriac, Bataille, Sartre, Duras, and Beckett. —P. Connor
Prerequisite: BC 3021, BC 3022, BC 3023, BC 3024, or permission of the instructor.
3 points. M W 2:40-3:55

FRE BC 3041x
Twentieth-Century French Thought
Identity as defined by the "other" and oneself. The first half of the semester focuses on the rise of anti-semitism from the 1880s to Le Pen; the second half focuses on self-identity in the writings of men and women from North Africa (Maghrebins).
Prerequisite: BC 3021, BC 3022, BC 3023, BC 3024, or the equivalent.
3 points. Not offered in 1995-96. *H*

FRE BC 3042x
Twentieth-Century French Poetry
A close reading of some of the most significant works of the 20th century ranging from early experimental texts by DADA poets through the return of lyrical poetry in works by contemporary French women poets. Poets will include Duchamp, Tzara, Cendrars, Apollinaire, Saint-John Perse, Michaux, Ponge, Mansour, Risset, Albiach, and others. —S. Gavronsky
Prerequisite: FRE BC 3021, 3022, 3023, 3024, or the equivalent.
3 points. Tu Th 1:10-2:25 *H*

FRE BC 3043y
Twentieth-Century French Women Writers
Writings by women will be analyzed in the changing philosophical and literary contexts of the 20th century.
Prerequisite: BC 3021, BC 3022, BC 3023, BC 3024, or the equivalent.
3 points. Not offered in 1995-96. *H*

FRE BC 3045x
The Short Story in France
Short prose fiction (contes, nouvelles, récits, textes) will be read in a literary as well as historical context and studied as ground for experimentation in the meaning of fiction. Authors include Perrault, Voltaire, Mérimée, Flaubert, Maupassant, Camus, Beckett, and Robbe-Grillet. —R. Geen
Prerequisite: BC 3021, BC 3022, BC 3023, BC 3024, or permission of the instructor.
3 points. M W 1:10-2:25 *H*

FRE BC 3046y
Political-Economic Aspects of Contemporary France
Major politico-institutional and socioeconomic crises and debates in France from the post-war to the present. —A. Protopappas
Prerequisite: Satisfaction of language requirement and one advanced French course or the equivalent.
3 points. Not offered in 1995-96.

FRE BC 3047y
Topics in French and Francophone Cultures

6. Censorship and Literature in France from the *Ancien Régime* to World War II
Course taught in English with readings in English and French; papers in English.
Prerequisites: Satisfaction of language requirement and one advanced French course or permission of the instructor.
3 points. Not offered in 1995-96. *H*

7. Négritude
Principal focus will be on the precursors of negritude, the major figures in the movement as well as contemporary critics of negritude. Authors will include Gobineau, Maran, Price-Mars, McKay, Hughes, Césaire, Senghor, Damas, Ménil, Fanon, Sartre, and Glissant. —S. Gavronsky
Taught in English with readings in English and French; papers in English.
Prerequisite: Satisfaction of French language requirement or permission of the instructor.
3 points. Tu Th 1:10-2:25 *II H*

8. Africa in Cinema
Representations of African culture by filmmakers from various cultural backgrounds. Social and ideological positions and the demands of exoticism. The constructions of the African as "other" and the responses they have elicited from Africa's cinéastes.
Taught in English with readings in English and French; papers in English. Prerequisite: Satisfaction of French language requirement or permission of the instructor.
3 points. Not offered in 1995-96. *II H*

FRE 3048x
Topics in Theory and Literary Criticism: Critical Theory
An introduction to the conceptual foundations of structuralism and post-structuralism. Readings will include works by Jakobson, Lévi-Strauss, Lacan, Foucault, Derrida, Cixous, and others. —A. Boyman
Course taught in English with readings in English and French; papers in English.
Prerequisite: Satisfaction of the language requirement in French or permission of the instructor.
3 points. M W F 12:00

FRE BC 3049x
France on Film
Films on and of the period from the 1930s to the present focusing on the interplay between history, ideology, and culture. Topics include the syndicalist movement, Resistance and anti-semitism, anti-Americanism, the presence of the foreigner, and the status of the intellectual. Readings include works by contemporary historians, sociologists, and feminist critics, as well as film historians and film theoreticians. —S. Gavronsky
Course taught in English with readings in English and French; papers in English.
Prerequisite: BC 3021, BC 3022, BC 3023, BC 3024, or the equivalent.
3 points. Not offered in 1995-96. *II H*

SEMINARS

FRE BC 3052x
Seminar in Literature
Written permission of the instructor is required.
4 points. Not offered in 1995-96.

FRE BC 3053y
Seminar in Translation
Individual and team translations; critiques of existing translations together with a study of some of the major texts in the theory of translation. Texts will range from 19th- and 20th-century French poetry, fiction, and literary criticism. —S. Gavronsky.
Written permission of the instructor is required.
4 points. Tu 4:10-6:00

SENIOR ESSAY

The Senior Essay may be taken in lieu of the senior seminar only by seniors with an A- average in the department. Written permission of sponsor is required. Normally a one-semester course.

FRE BC 3057x, 3058y
Senior Essay: Literature or French Studies
Research into French or Francophone literatures and cultures. Literature majors will write their essays in French; French Studies majors may write in English.

FRE BC 3059x, 3060y
Senior Essay: Translation
Presentation and translation into English of a French text of significant length and literary or cultural value.

STUDY IN PARIS

Reid Hall Programs
412 Lewisohn Hall. 854-2559
Reid Hall, at 4, Rue de Chevreuse, in Montparnasse, is the Paris campus for Barnard College and Columbia University programs. The programs are open to students with majors in all fields. To assure validation of credits, students should work closely with their major advisers. Students should consult the current Reid Hall Bulletin about course offerings, which are subject to change. Students may study at Reid Hall for one term (Autumn, Spring, or Summer) or for an entire academic year. Students in the Autumn programs may stay on for the Spring. Participation in the Reid Hall Programs (except during the Summer) requires a full-time commitment to four courses totaling at least 12 points. Students may enroll in a fifth course with the permission of the Director of Studies. All students should discuss their proposed program with their home college adviser and Dean of Studies prior to departure.

AUTUMN PROGRAMS

Application Deadline: March 1
1. *The Intensive French Language and Civilization Program.* Open to students with two years of college-level French or the equivalent.
2. *The French Studies in the Humanities and Social Sciences Program.* Open to students with three years of college-level French or the equivalent. The third-year courses may be in literature, culture, grammar, composition, or conversation. Students may take up to two of their courses in the French university system.
3. *The Art History Program.* Open to students in good standing who have completed two years of college French or the equivalent and one introductory art history course with grades of B or better.
4. *The Supervised Research Program.* Open to students with three years of college-level French or the equivalent with grades of A- or better. Students may take up to three courses in the French university system and in addition must complete a mémoire, a research paper of publishable quality of at least 30 pages in length.

SPRING PROGRAMS

Application Deadline: October 1
1. *The Intensive French Language and Civilization Program.*
2. *The French Studies in the Humanities and Social Sciences Program.*
3. *The Supervised Research Program.*

ACADEMIC-YEAR PROGRAMS

Application Deadline: March 1
1. Students in the above-mentioned Autumn programs may stay on for the Spring. A variety of program options are available and are included in the descriptions of the Autumn programs.
2. *The Academic-Year Program.* Open to students who have completed three years of college French with distinction. Students study at Reid Hall and in the French university system and write a thesis.

Courses Offered at Reid Hall in Paris

French H 3003x, y
Phonetics
—D. Manesse, D. Barret
3 points.

French H 3334x, y
Introduction to Literary Study: From the 18th Century to the Present
—S. Hinglais, L. Vernière
Credit is not granted for both BC 3022 and H 3334 (or C3334 or F 3334).
3 points.

French H 3405x, y
Third-year Grammar and Composition, I
—M.M. Charlier, C. Valéro, C. Rouquette
3 points.

French H 3406x, y
Third-year Grammar and Composition, II
—M.M. Charlier, C. Valéro, C. Rouquette
3 points.

French H 3131x, y
Third-year Conversation I Aural/Oral Skills: Phonetics and Oral Expression
—M.M. Charlier, D. Barret
3 points.

French H3431x, y
Fourth-year Grammar and Composition, I
—M. Hamon, M. LeCaodic
3 points.

French H 3432x, y
Fourth-year Grammar and Composition, II
—D. van de Velde
Prerequisite: French H3431 or its equivalent.
3 points.

French H 3625x, y
Literary Analyses of French Culture
Ideology and politics in the literary texts of the 20th century. The issues of exclusion and participation in terms of contemporary French cultural identity. French society's relationship to its literary heritage and to the French language. —L. Vernière
3 points.

French H 3602x
Contemporary French Literature
Advanced work in aspects of French *modernité* as expressed in the literary and critical avant-garde from surrealism to the present. Close textual analysis of works by Breton, Desnos, Leris, Blanchot, Barthes, Sarraute, and Duras according to various approaches. —J.Y. Pouilloux
3 points.

French H 3991x-H 3992y
Supervised Study in the French University System
Study in the French university system in the area of the student's choice under the supervision of the Director of Studies.
2 to 15 points each term.

French H 3997x-H 3998y
Supervised Research in France
2 to 6 points each term.

FILM STUDIES

Film H 3031y
Introduction to French Cinema in an International Context: 1954 to the Present
—M. Cerisuelo
3 points.

The following courses are also offered at Reid Hall. For complete descriptions, see the appropriate departmental section of this bulletin or the Reid Hall Programs Bulletin available at 412 Lewisohn Hall.

Art History H 3320y. *Medieval Art and Architecture.*
Art History H 3430x, y. *Renaissance and 17th-Century Art and Architecture.*
Art History H 3604x, y. *Seminar on Contemporary French Art.*
Art History H 3715x. *Art in Paris 1900-1940.*
Art History H 3970x. *Picasso.*
Comparative Literature H 3250x-H 3251y. *Aesthetics I and II.*
History H 2503x, y. *Introduction to French Civilization and Culture.*
History H 3460x. *Intellectual and Social History of Paris.*
Philosophy H 3550x, y. *Aspects of Contemporary French Thought.*
History-Political Science H 3240x, y. *The State and Political Life in France from the Revolution to the Present.*
History-Political Science H 3260y. *The French Intellectual and France in Crisis: from the Dreyfus Case to May 1968.*
Political Science H 3210y. *France and Africa: Post-colonial Relations* (in French).
Political Science H 3---y. *The Politics of French Identity*
Women's Studies H 3450y. *Contemporary French Thought and Feminist Theory* (Seminar).

SUMMER PROGRAMS

The Columbia University Summer Session regularly offers courses at Reid Hall. A six-week summer term, in operation during June and July, is open to Columbia University and Barnard College students, qualified students from other institutions, and persons without current academic affiliation. All courses are offered for academic credit. The program offers grammar and composition, conversation, phonetics, and literature. Reid Hall assists students in locating housing, including dormitory facilities in the Cité Universitaire. The Reid Hall Program is announced in the Summer Session Bulletin, which is available in February of each year. Write or call the Reid Hall Programs office, 412 Lewisohn Hall, Columbia University, New York, N.Y. 10027, (212) 854-2559.

GERMAN

320 Milbank Hall 854-8312

Assistant Professor: Sigrid Berka (Department Representative), Erk Grimm

Lecturer: Regina Ayre

Senior Associate: Marvin Shulman

For organizational purposes, faculty teaching German language and literature courses will be included in the Department of German, Italian, and Linguistics.

Courses in German are designed to develop proficiency in language skills and to present the traditions as well as the current developments in the literature and culture of the German-speaking countries: Austria, Germany, and Switzerland.

The language requirement in German is fulfilled by the completion of BC 1204, *Intermediate Course II*. Entering students with a previous knowledge of German will be placed in the appropriate course on the basis of their CEEB scores or in accordance with their achievements on a placement test taken prior to registration.

Three levels of language instruction are offered with an equal emphasis on reading, writing, oral comprehension, and speaking. The *Elementary Full-Year Course*, German BC 1001-BC 1002, includes a series of videocassettes that the students will view at the rate of one a week to supplement their five classroom contact hours. In the *Intermediate Course I and II*, German BC 1203 and BC 1204, fictional prose provides a basis for expanding the students' knowledge of contemporary life and thought in the German-speaking countries. *BC 3005x, 3006y Advanced German* provides opportunity for intensive practice in speaking and writing German. These courses may be taken in reverse sequence. They are recommended as complementary companion courses to lecture/reading oriented courses.

Satisfactory completion of or exemption from BC 1204 is required for enrollment in any of the advanced courses; the sequences in which these should be taken will be determined in consultation with the department.

The following programs are available to prospective students in the German department:

The Major in German Language and Literature:

The courses comprising this program are all taught in German with the twofold objective of combining the study of significant works, literary trends, and cultural manifestations with advanced practice in the use of German as a medium of intellectual communication.

Requirements: 10 courses

GER BC 3005x and/or 3006y (3 pts. each)	*Advanced German*
GER BC 3011	*Introduction to German Literature and Civilization*
GER BC 3061	*Seminar*

Five one-term advanced literature courses chosen from GER BC 3014-3048

A third advanced language course may be substituted for one advanced literature course:

GER BC 3062x or y	*Senior Essay*

A one-half hour oral exit examination is required.

The Major in German Studies:

This major combines a study of literature with other aspects of German culture and civilization by choosing courses from the social sciences such as history, political science, and economics, and from other humanities dealing with the German-speaking regions of Europe.

The department will assist and advise those students who are interested in opportunities to study in Germany or Austria.

Requirements: 14 courses

Two or three of the following language courses or their equivalent:
GER BC 3005-3008

Four or five one-term Advanced Literature and Culture courses numbered:
GER BC 3011-3048

One GER BC 3062x or y *Senior Essay**

Six one-term courses in the Social Sciences and Humanities that relate to the German-speaking countries of Europe and define a special field of interest (to be chosen in consultation with the major adviser). Two courses dealing with German history are strongly recommended.

* The major adviser in the German department will work with a second reader in another field if the thesis topic should require it.

A half-hour oral exit examination is required.

The Combined Major: German + Another Field
Requirements: 14 courses

(Seven courses in each department, including a seminar in one of the departments and a senior essay on a topic bridging both fields.)

A student who selects a combined major will establish her special program in consultation with the departments concerned.

The Minor in German
Requirements: 5 courses

Advanced language courses from GER BC 3005-8
GER BC 3011

A minimum of three additional advanced literature courses from GER BC 3011-47/48

COURSES OF INSTRUCTION

LANGUAGE COURSES

GER BC 1001x-1002y
Elementary Full-Year Course

Fundamentals of German grammar, comprehension of the spoken language, reading, writing, and speaking. Intensive aural-oral practice.
—M. Shulman and staff
Work with videocassettes is required.
No credit is given for BC 1001x unless BC 1002y has been satisfactorily completed.
4 points. Sec. 1 M Tu W Th F 12:00
Sec. 2 M Tu W Th F 4:10

GER BC 1001y
Elementary Full-Year Course, Part I

Same as BC 1001x, but given in the Spring term.
—M. Shulman
No credit is given for BC 1001 unless BC 1002 has been satisfactorily completed.
4 points. M Tu W Th F 10:00

GER BC 1002x
Elementary Full-Year Course, Part II

Same as BC 1002y, but given in the Autumn term. — M. Shulman
4 points. M Tu W Th F 10:00

GER BC 1203x
Intermediate Course I

Complete grammar review through regular exercises. Texts by modern authors are used for close and rapid reading and writing exercises. Practice in conversation aims at enlarging the vocabulary necessary for daily communication. —M. Shulman and Staff
Prerequisite: BC 1002 or the equivalent.
4 points. Sec. 1 M Tu W Th 12:00
Sec. 2 M Tu W Th 4:10

GER BC 1203y
Intermediate Course I

Same as BC 1203x, but given in the Spring term.
—E. Grimm
Prerequisite: BC 1002 or the equivalent.
4 points. M Tu W Th 1:10

GER BC 1204y
Intermediate Course II

Language study based on literary texts: several

short stories, one short novel. Assignments include compositions in German and exercises of grammatical forms, both related to the texts. Class discussions in German provide oral and aural practice. — S. Berka and Staff
Prerequisite: BC 1203 or the equivalent.
4 points. Sec. 1 M Tu W Th 12:00
Sec. 2 M Tu W Th 4:10

GER BC 1204x
Intermediate Course II
Same as BC 1204y, but given in the Autumn term. —S. Berka
Prerequisite: BC 1203 or the equivalent
4 points. M Tu W Th F 1:10

GER BC 3005x, 3006y
Advanced German
Intensive practice in oral and written German. Discussions, oral reports, weekly written assignments, based on material of topical and stylistic variety taken from the German press and from literary sources. Use of tape cassettes for grammar review as required by students' individual needs. Courses may be taken in reverse sequence. —S. Berka and E. Grimm
2 points. Sec. 1 M W 10:00
3 points. Sec. 2 M W F 10:00

LITERATURE COURSES

The literature courses listed below are conducted in German. Examinations are written in English. Papers may be written in German or English.

GER BC 3011x
Introduction to German Literature and Civilization
German literature in a historical-cultural context from the late 18th to the 20th centuries. Selected readings from Lessing to Handke.— E. Grimm
Prerequisite: BC 1204 or the equivalent.
3 points. M W F 11:00 *III H*

GER BC 3014y
German Literature and Culture around the Turn of the 20th Century
Prerequisite: BC 1204 or the equivalent.
3 points. Not offered in 1995-96. *H*

GER BC 3015x
Goethe
Prerequisite: BC 1204 or the equivalent. Alternate years.
3 points. Not offered in 1995-96. *III H*

GER BC 3016y
The Romantic Movement in Germany 1790-1820
Prerequisite: BC 1204 or the equivalent.
3 points. Not offered in 1995-96. *III H*

GER BC 3025x
The Age of the Bourgeoisie in German Literature: The Novelle
A study of the most distinctive genre of German prose fiction as it developed in the 19th and early 20th centuries in works by authors from Kleist to Kafka and from C.F. Meyer to T. Mann. —S. Berka
Prerequisite: BC 1204 or permission of the instructor.
Offered every three years.
3 points. Tu Th 2:40-3:55 *III H*

GER BC 3027y
Modern German Literature and Culture, 1900-1945
Literature from turn-of-the-century to end of World War II in the German-speaking countries, with emphasis on main movements of the time, from symbolism to Expressionism and *Neue Sachlichkeit*, based on readings of literary and historical texts and illustrated by film, music, and art. Authors will include Hofmannsthal, Freud, Rilke, Hesse, Kafka, T. Mann, Lasker-Schüler, Brecht, Fleisser. Close attention to analysis of texts in their cultural and political setting. —E. Grimm
Prerequisite: BC 1204 or the equivalent.
3 points. M W 2:40-3:55 *III H*

GER BC 3028y
Contemporary German Literature from End of World War II to Unification
Prerequisite: BC 1204 or the equivalent.
Alternate years.
3 points. Not offered in 1995-96. *III H*

GER BC 3046y
German Literature in the 18th Century
Prerequisite: BC 1204 or the equivalent. Alternate years.
3 points. Not offered in 1995-96.
See GER BC 3061x *III H*

GER BC 3061x
Seminar
Prerequisite: Major status or permission of the instructor.
4 points. Not offered in 1995-96. *III H*

GER BC 3062y
Senior Essay
The topic must be related to one of the literature courses that the student has completed in the department. —S. Berka and E. Grimm
Open to senior majors. Permission of the instructor required.
3 points. Regular consultations with the instructor at hours to be arranged.

COURSES GIVEN IN ENGLISH

German majors and minors are required to read the texts in German and to attend an additional seminar hour conducted in German in those courses indicated below.

GER BC 3047y
The Golden Age of German Medieval Literature
An exploration of the medieval literary traditions. The courtly epic: Erec, Parzival, Tristan; the Nibelungenlied; Minnesang; monastic women writers. —R. Ayre
Corequisite: GER BC 3048y required for German majors and minors.
3 points. Tu Th 2:40-3:55 *III*

GER BC 3048y
The Golden Age of German Medieval Literature: Discussion Section
Discussion in German of readings for GER BC 3047y. —R. Ayre
Required for German majors and minors only: texts to be read in German. Prerequisite: GER BC 1204 or equivalent. Corequisite: GER BC 3047y.
1 point. Hours TBA.

CPL BC 3101y
The Myth of the Vampire
The history of the myth of vampirism and its significance for 20th-century Western culture. Focuses on the discourses of imperialism, gender, race, and psychoanalysis. Attention to such issues as colonization, the "new woman," the news media, cross-dressing, and AIDS. Readings of literary and film texts by Homer, Goethe, Bram Stoker, Sheridan Lefanu, Murnau, Herzog, Freud, Anne Rice, Elfriede Jelinek, and others. —S. Berka
In English.
3 points. Tu Th 2:40-3:55 *III H*

HISTORY

415 Lehman Hall 854-2159

Professors: Mark C. Carnes (Chair, Autumn), Robert A. McCaughey (Chair, Spring)[1], Rosalind N. Rosenberg

Associate Professors: Beth Bailey, Nancy Woloch (Adjunct)

Assistant Professors: David Farber, Lynette Jackson, Joel Kaye[3], Richard J. Lufrano, Herbert Sloan, Lisa Tiersten, Lars Trägårdh, Deborah Valenze

Other officers of the University offering courses in History:

Professors: Roger S. Bagnall[1], Alan Brinkley, Richard Bulliet, Richard Bushman, Caroline Bynum, David Cannadine, Istvan Deák, Barbara Fields, Eric Foner, Carol Gluck[2], Arthur Goren[2], Victoria de Grazia[2], Leopold H. Haimson[2], William V. Harris, Martha Howell[1], Kenneth Jackson, Herbert S. Klein, Hollis R. Lynch, Edward Malefakis, Manning Marable[1], Robert O. Paxton[1], Eugene Rice, David J. Rothman, Simon Schama, James P. Shenton, Henry Smith, J.W. Smit, Robert Somerville, Michael Stanislawski, Nancy Leys Stepan[1], Fritz Stern, H. Paul Varley, Isser Woloch[2], Richard Wortman, Marcia Wright, Yosef H. Yerushalmi, Madeleine Zelin

Associate Professors: Richard Billows[1], Elizabeth Blackmar[1], Joshua Freeman[1], Atina Grossman, Robert Hymes, Ayesha Jalal, Deborah Levenson-Estrada, Mohamed Mbodj[2], Marc Van de Mieroop, Mark von Hagen

Assistant Professors: David Armitage, Mahmud Haddad, Winston James, Silvana Patriarca, James Rives, Daryl Scott[1], Anders Stephanson

[1]Absent on leave Autumn term

[2]Absent on leave Spring term

[3]Absent on leave 1995-96

History, which includes the whole of human experience, helps us understand ourselves in the context of our own times and traditions through the study of times and traditions different from our own. It provides perspective on the present through examination of change and continuity in the development of our political, economic, social, religious, and cultural ideas and institutions in preceding centuries. History means not only the record of the past but also the discipline of investigation and interpretation of the past. There is no one way of doing history, but doing history necessarily involves the collection and evaluation of various types of evidence—quantitative as well as qualitative—from primary sources. The study of history, which develops habits of critical thinking and effective writing, should be of value not only to undergraduates who intend to pursue advanced degrees in the field, but also to all students interested in exploring the diversity and complexity of the human past and in improving their analytical and expository skills.

Barnard history courses are numbered according to the following scheme of classification:

1000-level: introductory lecture courses
3000-level: advanced lecture courses
3400-level: seminars
3700-level: senior research seminars
3900-level: independent research seminars

Lecture courses are defined more broadly—chronologically, geographically, thematically — than seminars, which characteristically involve reading and discussion of primary and secondary sources on more specialized subjects. Students must apply for admission to seminars by filling out forms available in the departmental office. Deadline for applications for Autumn 1995 seminars: March 31, 1995. Deadline for applications for Spring 1996 seminars: November 17, 1995. Deadline for applications for Autumn 1996 seminars: April 17, 1996.

Students should consult the Columbia College catalogue for full descriptions of Columbia

history courses and for regulations concerning enrollment in these courses. Application forms for Columbia seminars, due by the deadlines mentioned above, are available in 611 Fayerweather and in 415 Lehman. Certain Columbia graduate ("G") courses are open to qualified history majors with the approval of the Barnard chair and the Columbia instructor. For course descriptions, see the bulletin of the Graduate School of Arts and Sciences.

Students will receive six points of College credit for a score of five and three points of credit for a score of four on the Advanced Placement Examination in American or European history. These credits are not counted toward the history major.

REQUIREMENTS FOR THE MAJOR

Students who intend to major in history should consult a member of the department in their sophomore year to plan their academic programs.

The history major requires a minimum of eleven courses, eight in the area of concentration and three outside the area of concentration. The three principal areas of concentration are European, American, and Asian history, but majors may, in consultation with their advisers and with the approval of the chair, concentrate in some other field, such as ancient, medieval, Jewish, or African history. The 11 required courses must include:

1. Three introductory courses (i.e., 1000-level courses or their equivalent). For Barnard Class of 1998 and those expecting to graduate, two of the introductory courses must be taken in the field of concentration. Students with AP credits may substitute an advanced course(s) for introductory course(s), although AP credits may not be counted toward the 11 required courses.
2. Two seminars
3. The two-semester senior research seminar (HIS BC 3793-3794).

Majors may, with the approval of their advisers, take two of their 11 courses outside the department, provided that such courses are closely related to their concentrations. American Studies seminars may be substituted for history seminars.

SENIOR RESEARCH SEMINAR

The senior research seminar, in which students write their senior essays (30-50 pages), represents the culmination of the undergraduate history major. Students should discuss tentative topics with their advisers by the end of the junior year. Halfway through the first semester of the senior year students must submit a formal prospectus defining the problem under investigation, outlining the issues involved, and identifying the primary and secondary sources consulted. They must draft part of the essay by the end of the Autumn semester, then complete their research and writing in the Spring.

REQUIREMENTS FOR THE MINOR

The minor in history requires five courses, four in an area of concentration and one outside the concentration. The five courses must include one seminar. Students planning to minor in history should consult the department chair.

COURSES OF INSTRUCTION

LECTURES: ANCIENT, MEDIEVAL, JEWISH, AND MODERN EUROPEAN HISTORY

HIS BC 1004x
Introduction to Later Middle Ages: 1050-1450
3 points. Not offered in 1995-96. *III S*

HIS BC 1011x
Introduction to European History: Renaissance to French Revolution
Political, economic, social, religious, and intellectual history of early modern Europe, including the Renaissance, Reformation and Counter-Reformation, absolutism, Scientific Revolution,

and Enlightenment. —D. Valenze
3 points. Tu Th 1:10-1:25 *III S*

HIS BC 1012y
Introduction to European History: French Revolution to the Present
Emergence of revolutionary and counter-revolutionary mass political movements; European industrialization, nationalism, and imperialism; 20th-century world wars, the Great Depression, and Fascism. —L. Trägårdh and L. Tiersten
3 points. Tu Th 1:10-2:25 *III S*

HIS BC 3005x
Nationalism in Modern Europe
A comparative investigation of nationalism in modern Europe, in both its benign and lethal forms, from Lillehammer, Norway to Sarajevo, Bosnia. Examines the search for national identity, community, and solidarity, along with its darker counterparts: xenophobia, racism, ethnic cleansing, the Holocaust. —L. Trägårdh
3 points. Tu Th 1:10-2:25 *III S*

HIS BC 3026y
Medieval Intellectual History, 1050-1400
3 points. Not offered in 1995-96. *III S*

HIS BC 3038y
European Women in the Age of Revolution, 1750-1890
An exploration of the origins of the "modern" European woman: changing the political and legal definitions of women; new concepts of women's work and authority during industrialization; women's involvement in religion and reform; emergence of socialist and feminist critiques of 19th-century womanhood. —D. Valenze
3 points. Tu Th 1:10-2:25 *III S*

HIS BC 3039x
The "Civilizing Process": European Encounters with Non-Western Cultures
The shaping of European cultural identity through encounters with non-European cultures from 1500 to the post-colonial era. Novels, paintings, and films will be among the sources used to examine such topics as exoticism in the Enlightenment, slavery and European capitalism, Orientalism in art, ethnographic writings on the primitive, and tourism. —L. Tiersten
3 points. M W 11:00-12:15 *III S*

HIS W 1004x
Ancient History of Egypt
—Van de Mieroop
3 points. M W 11:00-12:15 *S*

HIS W 1145x
Medieval People
—C. Bynum
3 points. Tu Th 9:10-10:25 *S*

HIS W 3205x
European Society and Politics, 1850-1914
—S. Patriarca
3 points. Tu Th 4:10-5:25 *S*

HIS W 3218x
Germany and the Crisis of Modernity: Nation, Race, and Gender in the 20th Century
—A. Grossman
3 points. Tu Th 10:35-11:50 *S*

HIS W 3222x
Britain and the World: 1453-1707
—D. Armitage
3 points. M W 11:00-12:15 *S*

HIS W 3228y
British History: 1832-Present
—D. Cannadine
3 points. Tu Th 4:10-5:25 *S*

HIS W 3361x
History of the Soviet Union
—M. von Hagen
3 points. Tu Th 1:10-2:25 *S*

HIS W 3531x
Jews in Eastern Europe: 1917-Present
—M. Stanislawski
3 points. Tu Th 10:35-11:50 *S*

HIS W 3545x
Modern Jewish History I: The Era of Emancipation, 1790-1870
—Y. Yerushalmi
3 points. M W 11:00-12:15 *S*

SEMINARS: ANCIENT, MEDIEVAL, JEWISH, AND MODERN EUROPEAN HISTORY

All seminars require permission of the instructor. Enrollment limited to 15.

HIS BC 3400y
Introduction to Historical Theory and Method
A writing-intensive introduction to modern historical theories and methods. Emphasis on the critical reading of a wide range of primary and secondary historical sources. —H. Sloan
Recommended for, but not limited to, second semester sophmores and new history majors. Limited to 18.
4 points. Tu Th 10:35-11:50 *S*

HIS BC 3410y
The City in Europe
A social history of the city in Europe from early modern times; the economic, political, and intellectual forces influencing the growth of Paris, London, Vienna, and other urban centers. —D. Valenze
4 points. W 2:10-4:00 *III S*

HIS BC 3412x
Medieval Economic Life and Thought ca.1000-1500
4 points. Not offered in 1995-96. *III S*

HIS BC 3416y
Medieval Science and Society
4 points. Not offered in 1995-96. *III S*

HIS BC 3427x
Women, Class, and Culture
4 points. Not offered in 1995-96. *III S*

HIS BC 3429x
Consuming Passions: Gender, Class, and the Culture of Consumption in Modern Europe
The development of the modern culture of consumption, with particular attention to the formation of the woman consumer. Topics include commerce and the urban landscape, changing attitudes toward shopping and spending, feminine fashion and conspicuous consumption, and the birth of advertising. Examination of novels, fashion magazines, and advertising images. —L. Tiersten
4 points. W 2:10-4:00 *III S*

HIS BC 3433y
European Welfare State and the Family: 1919-1980
The history of the family and family policy in 20th-century Europe in the context of the emerging welfare state. Themes will include the patriarchal family, the emancipation of women, the rights and protection of children, family values versus individual rights, the state versus civil society. —L. Trägårdh
4 points. Th 6:10-8:00 *III S*

HIS BC 3442y
The Politics of Leisure in Modern Europe
Transformations in the culture of leisure from the onset of industrialization to the present day. Relations between elite and popular culture, and the changing relationship between the worlds of work and leisure will be among the topics considered in such settings as the department store, the pub, the cinema, and the tourist resort. —L. Tiersten
4 points. Offered in 1997. *III S*

HIS BC 3445x
Poverty and the Social Order in Europe
Historical study of poverty and social formations from the late Middle Ages to the twentieth century. Topics include institutional responses to vagrancy in the 17th century; religion and the rise of capitalism; crime and the poor; philanthropy and the state; motherhood and poverty. —D. Valenze
4 points. W 2:10-4:00 *III S*

HIS BC 3448x
Germany and Europe: From Napoleonic Invasions to the Fall of the Wall
Explores the so-called "German Question" as it has continued to haunt and challenge Germans and other Europeans from the time of the Napoleonic Wars until the (re)unification in 1990. Themes will include the vexing question of "What is Germany?"; the various competing and often contradictory quests for national unification and statebuilding; and the struggle over precisely what constitutes German national identity. —L. Trägårdh
4 points. Th 6:10-8:00 *III S*

HIS BC 3474x
History of the Holocaust
4 points. Not offered in 1995-96. *III S*

HIS BC 3793x-3794y
Senior Research Seminar
Individual research and writing in medieval, early modern, and modern European history. See Requirements for the Major for details. —Staff
4 points. W 4:10-6:00 *S*

HIS W 3760x
Roman Elite in the Age of Cicero
—J. Rives
4 points. Tu 11:00-12:50 *S*

HIS W 3873x
Gender and Modernity: Europe 1890-1950
—A. Grossman
4 points. W 2:10-4:00 *S*

HIS W 3937x
Jewish Rights and Political Emancipation
—Y. Yerushalmi
4 points. M 2:10-4:00 *S*

HIS W 3962x
The Russian Revolution of 1917
—L. Haimson
4 points. Th 4:10-6:00 *S*

HIS W 3967x
Personality and Society in 19th-Century Russian Thought
—R. Wortman
4 points. W 4:10-6:00 *S*

LECTURES: AMERICAN HISTORY

HIS BC 1051x
Survey of American Civilization to the Civil War
The major theological and social concerns of 17th-century English colonists; the political and ideological process of defining an American; the social and economic forces that shaped a distinctive national identity; the nature of the regional conflicts that culminated in civil war. —H. Sloan
3 points. Tu Th 10:35-11:50 *III S*

HIS BC 1052y
Survey of American Civilization Since the Civil War
The major intellectual and social accommodations made by Americans to industrialization and urbanization; patterns of political thought from Reconstruction to the New Deal; selected topics on post–World War II developments. —R. Rosenberg
3 points. Tu Th 2:40-3:55 *III S*

HIS BC 3052y
The Constitution in Historical Perspective
The development of constitutional doctrine, 1787 to the present. The Constitution as an experiment in republicanism; states' rights and the Civil War amendments; freedom of contract and its opponents; the emergence of civil liberties; New Deal intervention and the crisis of the Court; the challenge of civil rights. —H. Sloan
3 points. Tu Th 2:40-3:55 *III S*

HIS BC 3056x
The American Civil Rights Movement
3 points. Not offered in 1995-96. *III S*

HIS BC 3067x
America Since 1945
A consideration of the Cold War, containment, and the atomic bomb; McCarthyism; the Civil Rights movement; the Vietnam War; student unrest and the counterculture; the response to the 1960s. Emphasis on relation between domestic and foreign affairs. —M. Carnes
3 points. M W 11:00-12:15 *III S*

HIS BC 3071x
American Cultural History
3 points. Not offered in 1995-96. *III S*

HIS BC 3074x
History of Sexuality
3 points. Not offered in 1995-96. *III S*

HIS BC 3082x
American Women in the 20th Century
A consideration of women's changing place in modern America; the "family claim"; women in the workplace; educational expansion; the battle for suffrage; social reformers; the sexual revolution; women in the professions; the crisis of depression and war; the feminine mystique; the new feminism. —R. Rosenberg
3 points. Tu Th 2:40-3:55 *III S*

HIS BC 3083x
American Intellectual History: To the Civil War
3 points. Not offered in 1995-96.

HIS BC 3084y
American Intellectual History Since 1865
An examination of the major ideas engaging American intellectuals from Appomattox to the present, with special attention to their institutional settings. Topics include Darwinism, the rise of the professoriate, intellectual progressivism, inter-war revisionism, Cold War liberalism, and neo-conservatism. —R. McCaughey
3 points. M W 2:40-3:55.

HIS BC 3085x
America in the 1960s
3 points. Not offered in 1995-96. *III S*

HIS W 1109x
Main Currents in American History: 1492-1877
—R. Bushman
3 points. M W 11:00-12:15 *S*

HIS W 3548x
American Jewish History
—A. Goren
3 points. M W 11:00-12:15 *S*

HIS W 3642x
The Radical Tradition in America
—E. Foner
3 points. M W 1:10-2:25 *S*

HIS W 3660x
Harlem: A Social and Cultural History, 1890-1965
—W. James
3 points. M W 1:10-2:25 *S*

SEMINARS: AMERICAN HISTORY

All seminars require permission of the instructor. Enrollment limited to 15. Preregistration required.

HIS BC 3400y
Introduction to Historical Theory and Method
A writing-intensive introduction to modern historical theories and methods. Emphasis on the critical reading of a wide range of primary and secondary historical sources. —H. Sloan
Recommended for, but not limited to, second-semester sophomores and new history majors.
4 points. Tu Th 10:35-11:50 *I S*

HIS BC 3444x
Bourgeois America
4 points. Not offered in 1995-96. *III S*

HIS BC 3451y
Law and American Society
4 points. Not offered in 1995-96. *III S*

HIS BC 3452x
Origins of the Constitution
4 points. Not offered in 1995-96. *III S*

HIS BC 3454y
Cultural Studies
4 points. Not offered in 1995-96. *III S*

HIS BC 3458y
War and 20th-Century American Culture
4 points. Not offered in 1995-96. *III S*

HIS BC 3460y
Progressive Women: 1890-1920
4 points. Not offered in 1995-96. *III S*

HIS BC 3463y
American Women in the 1920s
An exploration of women's lives from World War I to the Great Crash. Topics include women's politics, domestic roles, the female work force, collegiate life, the new morality, flaming youth, women in the Harlem Renaissance, women's literature, and the paradox of modern feminism. —N. Woloch
4 points. M 11:00-12:50 *III S*

HIS BC 3464y
Higher Learning in America
An examination of the history of American colleges and universities from the colonies to the present; special emphasis on the evolving relationship between academic institutions and the political and social orders. —R. McCaughey
4 points. Tu 4:10-6:00 *III S*

ASH BC 3469y
Elites in 20th-Century America
4 points. Not offered in 1995-96. *III S*

ASH BC 3400x
Everyday Life in Post-War America
4 points. Not offered in 1995-96. *III S*

ASH BC 3401x
Approaches to American Cultural History
Colloquium—see American Studies for description. —N. Woloch
4 points. Tu 11:00-12:50 *III S*

HIS BC 3461x
Education in American History
Seminar—see Education for description. —N. Woloch
4 points. Tu 2:10-4:00 *III S*

HIS BC 3477x
Gender in the Bourgeois World
4 points. Not offered in 1995-96. *III S*

HIS BC 3480y
American Women Since 1945
—N. Woloch
4 points. Tu 11:00-12:50 *III S*

HIS BC 3489y
The Fourteenth Amendment and Its Uses
4 points. Not offered in 1995-96. *III S*

HIS BC 3793x-3794y
Senior Research Seminar
Individually guided research in diverse aspects of American history and the presentation of results in seminar and in the form of the senior essay. See Requirements for the Major for details. —Staff
Open to senior majors; others by permission of the instructor.
4 points. W 4:10-6:00 *S*

HIS W 3938x
History of Scientific Racism in America
—D. Scott
4 points. M 6:10-8:00 *S*

HIS W 3812x
America and Vietnam, 1945-1975
—A. Brinkley
4 points. Tu 2:10-4:00 *S*

HIS W 3889x
Research Seminar in African-American History
—E. Foner
4 points. M 4:10-6:00 *S*

HIS W 3906x
American Culture: Revolution to Civil War
—R. Bushman
4 points. W 6:10-8:00 *S*

HIS W 3925x
People of the Old South
—B. Fields
4 points. Tu 4:10-6:00 *S*

HIS W 3950x
World War II
—J. Shenton
4 points. W 4:10-6:00 *S*

LECTURES: ASIAN, LATIN AMERICAN, AND AFRICAN HISTORY

HIS BC 1021x
Late Imperial China, 1550-1900
An introduction to China during the late Ming and Qing dynasties, with emphasis on dynastic change, commercialization, urbanization, population growth, imperialist encroachment, and mid-19th-century rebellion. —R. Lufrano
3 points. M W 2:40-3:55 *II S*

HIS BC 1022y
China in the Twentieth Century
Attempts at state formation and the rise of the revolutionary parties; foreign power intervention, economic crisis and development, and the rise of new social classes; the changing status of women and intellectual and cultural change. —R. Lufrano
3 points. M W 2:40-3:55 *II S*

HIS BC 1030y
History of Southern Africa
History of Mozambique, Angola, Namibia, and Zimbabwe from the 1500s to the present. Explores pre-colonial structures, material cultures; impact of slavery and South African regional hegemony, new nations and identities, migrant cultures and economies, invented traditions, liberation movements, U.S. Southern African policy, post-colonialism, the new imperialism. —L. Jackson
3 points. M W 11:00-12:15 *II S*

HIS BC 3090x
Women, Gender, and Power in African History
Women's lives, constructions of gender and relations of power in African societies. Explores gender role prescriptions in legends and ritual, marriage and family, women and state formation, slavery and colonialism, constructions of masculinity, liberation movements, and the "Woman Question." Representations of African women (by themselves and others) in literature and visual media will be examined. —L. Jackson
3 points. M W 11:00-12:15 *II S*

HIS W 1004x
Ancient History: Egypt
—M. Van de Mieroop
3 points. M W 11:00-12:15 *S*

HIS W 3005x
Main Currents in African History
—M. Mbodj
3 points. M W 11:00-12:50 *S*

HIS W 3600x
World War II in American & Japanese History
—C. Gluck
3 points. M W 11:00-12:15 *S*

SEMINARS: ASIAN, LATIN AMERICAN, AND AFRICAN HISTORY

All seminars require permission of the instructor. Enrollment limited to 15. Preregistration required.

See under Asian and Middle Eastern Cultures for additional courses.

HIS BC 3430x
The Cultural Revolution in China
Origins, history, and the aftermath of one of the pivotal events in 20th-century Chinese history. Emphasis on ideological and power struggles, the role of the Red Guards and the army, and the effect of radical policies on society and economy. —R. Lufrano
4 points. Tu 4:10-6:00 *II S*

HIS BC 3443y
Images of China and America
4 points. Not offered in 1995-96. *II S*

PAS BC 3100x
Medicine and Power in African History
Examines medical discourse and practice in Africa, emphasizing relationships between power and medical knowledge. Topics include: African therapeutic systems, African conjurers in the New World, medicine and imperialism, representing "the sick African," the professionalization of traditional healers, and the politics of AIDS in contemporary Africa. —L. Jackson
4 points. Th 2:10-4:00 *II S*

PAS BC 3101y
Black Nationalism in Africa and the African Diaspora
Examines constructions of nation in Africa and the diaspora through cultural productions, religion, and politics; how gender, class, race, and sexuality have influenced the shape of black nationalism;

and the place of Africa in the diaspora imagination. Topics include Ethiopianism, Pan-Africanism, Negritude, Liberation and the Politics of Manhood, contemporary Afrocentricity. —L. Jackson
4 points. Th 2:10-4:00 *II S*

HIS BC 3799x, y
Independent Study
—Staff
4 points. *S*

HIS W 3916x
Colonialism through African Eyes
—M. Mbodj
4 points. Tu 11:00-12:55 *S*

OTHER OFFERINGS

Full description of courses offered by Barnard faculty of interest to students of history can be found elsewhere in this catalogue under the department or interdisciplinary program in which the course is offered. For Columbia graduate history lecture courses open to undergraduates ("4000 level") and courses jointly sponsored with other Columbia departments, see the Columbia University Bulletin.

COURSES OFFERED AT REID HALL IN PARIS

The following courses are offered in Paris. Additional information about the programs is available in 412 Lewisohn Hall.

History H 2503x, y
Introduction to French Civilization and Culture
Contemporary French society in historical-cultural context: the weight of a centralized state, the defense of the French language, the Catholic tradition, France and Europe. These themes are presented, studied, and discussed in order to provide a basis for improving the comprehension of written and spoken French. —A. Chebel-d'Appollia
3 points. *S*

History-Political Science H 3240x, y
The State and Political Life in France from the Revolution to the Present
The continuity and discontinuity of French political life during the past 200 years. Factors that assure the permanence of French political life are often hidden from view because of frequent dramatic breaks and changes in political regimes. Through analysis of moments of turmoil and change, the underlying element of permanence is traced. Key dates indispensable to the study of contemporary France are discussed. —D. Hemery
3 points. *S*

History-Political Science H 3260y
The French Intellectual and France in Crisis: from the Dreyfus Case to May 1968
The roles and influences of French intellectuals within the political arena and the national struggles of contemporary France. Special attention to moments of crisis; the Dreyfus case, the thirties, World War II, the Algerian War, etc. —C. Prochasson
3 points. *S*

History H 3460x, y
Intellectual and Social History of Paris
A historical and architectural introduction from the city's origins to before World War II. Establishes links between the various components (topographical, administrative, religious, military, intellectual, economic, artistic, and social) that have contributed to the vitality of Paris and forged its image in the world. —C. Sala
3 points. *S*

ITALIAN

317 Milbank Hall 854-5418, 3577

Assistant Professor: Antonella Ansani[1] (Departmental Representative)

Associate: Daniela Noè

Other officers of the University offering courses in Italian:

Professors: Teodolinda Barolini, Luciano Rebay

Associate Professor: Jo Ann Cavallo

Assistant Professors: Nelson Moe, Massimo Pesaresi

Lecturers: Mario Bellati, Maria Luisa Gozzi, Giuseppe Trapanese

[1]Absent on leave 1995-96.

For organizational purposes faculty teaching Italian language and literature courses will be included in the Department of German, Italian, and Linguistics.

Undergraduate instruction in Italian has long been fully and successfully integrated among the various undergraduate schools—Barnard College, Columbia College, and the School of General Studies. All courses are open to Barnard students. For students who have studied other foreign languages and can acquire by intensive study the equivalent of two full years of Italian, the comprehensive elementary and intermediate course is recommended. The advanced Italian course, though part of the requirements for a major in Italian, is open to all qualified students whose main goal is to improve their competence in the language as distinct from its literature.

A major in Italian offers the advantages of closely supervised work for a small number of students. Through the seminar in Italian literature, the major can study in a chosen area under the experienced guidance of a specialist.

The courses given in English have no prerequisites and are open to students majoring in other departments who nevertheless wish to study Italian literature.

The Barnard Italian office is located in 317 Milbank Hall, and the Columbia department is housed in 502 Hamilton.

Graduate courses are open to qualified students with permission of the instructor.

REQUIREMENTS FOR THE MAJOR

The courses in Italian are designed to develop proficiency in all the language skills and to present the literary and cultural traditions of Italy. The program of study is to be planned as early as possible.

The following courses are required unless advanced standing is attained by the Department Placement examination:

ITA V 1101-V 1102	*Elementary Full-Year Course*
ITA V 1201-V 1202	*Intermediate Course*

10 courses are required for the major, including:

ITA V 3333-V 3334	*Introduction to Italian Literature*
ITA V 3335-V 3336	*Italian Written and Oral Style*
ITA V 3993-V 3994	*Seminar in Italian Literature*

plus at least four more courses in Italian numbered above ITA W 1312.

REQUIREMENTS FOR THE MINOR

A minimum of five courses is required for the minor, to be selected from courses including and numbered above ITA V 3333-V 3334.

Language Requirement

The language requirement can be fulfilled with ITA V 1101-V 1102 and V 1201-V 1202 (or their equivalents). Students who have taken courses in Italian elsewhere (whether in high school, in college, or both) but not at Barnard or Columbia must take the Italian placement test before registering for any Italian course. The test is given during the preregistration period in 502 Hamilton.

COURSES OF INSTRUCTION

ITA V 1101x-V 1102y
Elementary Full-Year Course

Integral course for beginners with intensive oral-aural drill; reading, translation, conversation. No credit is given for V 1101 until V 1102 has been completed. —D. Noè and associates
Enrollment limited to 20 students per section.
4 points. Sec. 1 M Tu W Th 9:00-9:50
Sec. 2 M Tu W Th 10:00-10:50
Sec. 3 M Tu W Th 11:00-11:50
Sec. 4, 5 M Tu W Th 12:00-12:50
Sec. 6 M Tu W Th 1:10-2:00

ITA F 1101x-F 1102y
Elementary Full-Year Course

—Staff
4 points. Sec. 1 M W 6:10-8:00
Sec 2 Tu Th 6:10-8:00

ITA F 1102x, F 1101y
Elementary Full-Year Course

—G. Trapanese
4 points. Sec. 1 M W F 1:10-2:25

ITA W 1111x, W 1112y
Elementary Conversation

Intensive practice in pronunciation, vocabulary, reading aloud, comprehension of the spoken language, and conversation. —M. Bellati
Prerequisite for W 1112: W 1111 or the equivalent, or sufficient fluency to satisfy the instructor.
Conversation courses may not be used to satisfy the language requirement.
2 points. Tu Th 1:10-2:25

ITA V 1201x-V 1202y
Intermediate Course

Review of the essentials of grammar; intensive and extensive reading, particularly from contemporary authors; translation, composition, and practice in conversation. —D. Noè and M.L. Gozzi
Prerequisite: V/F 1102 or the equivalent. Enrollment limited to 20 students per section.
4 points. Sec. 1 M Tu W Th 12:00-12:50
Sec. 2 M Tu W Th 11:00-11:50
Sec. 3 M Tu W Th 12:00-12:50

ITA F 1201x-F 1202y
Intermediate Course

—G. Trapanese
Prerequisite: V/F 1102 or the equivalent.
4 points. M W 6:10-8:00

ITA F 1202x-F 1201y
Intermediate Course

—M.L. Gozzi
Prerequisite: V/F 1102 or the equivalent.
4 points. M Tu W Th 1:10-2:00

ITA W 1221x, W 1222y
Intermediate Conversation

Intensive practice in the spoken language, assigned topics for class discussions, and oral reports. —M. Bellati
Conversation courses may not be used to satisfy the language requirement. Prerequisite: ITA W 1112 or sufficient fluency to satisfy the instructor.
2 points. Tu Th 2:40-3:55

ITA V 1301x-V 1302y
Comprehensive Elementary and Intermediate Course

Recommended for students who have studied other foreign languages and can acquire by intensive study the equivalent of two full years of work in elementary and intermediate Italian grammar with stress on reading and conversing.
This course may not be used to satisfy the language requirement. Students must receive permission to register from the department in 502 Hamilton.
4 points. Sec. 1 M W F 4:10-5:25 —G. Trapanese
Sec. 2 M Tu W Th 10:00-10:50 —Staff

ITA W 1311x, 1312y
Advanced Conversation

Practice in the spoken language through assigned topics on contemporary Italian culture. Conversation courses may not be used to satisfy the language requirement. —M. Bellati
Prerequisite: ITA W 1222 or permission of the instructor.
2 points. Tu Th 10:35-11:50

ITA V 3335x, V 3336y
Advanced Italian
Written and oral self-expression in Italian; brief papers, translations, and oral reports on a variety of topics; grammar review. —D. Noè
Prerequisite: V 1201-1202 or the equivalent.
3 points. Tu Th 1:10-2:25

LITERATURE COURSES

For non-majors, the literature courses listed below will count toward the distribution requirement.

ITA V 3230y
The Italian Novella in the Middle Ages and the Renaissance
3 points. Not offered in 1995-96. *III H*

ITA V 3333x, V 3334y
Introduction to Italian Literature
Introduction to literary theory and problems and to in-depth textual analysis. Authors and works from the thirteenth century to the present; the basic course in Italian literature.
—V 3333: M. Refling; V 3334: N. Moe
Prerequisite: V 1201-V 1202 or the equivalent.
3 points. M W 2:40-3:55 *III H*

ITA V 3449x
Modern Italian Literature
Prerequisite: ITA V 1202 -F 1202 or the equivalent.
3 points. Not offered in 1995-96.

ITA V 3891y
Dante, La Divina Commedia
An introduction to *The Divine Comedy*, with emphasis on textural analysis and the appreciation of Dante's masterwork as a poetic text. Reading and lectures in Italian; class discussions and written assignments in either Italian or English.
—L. Rebay
Prerequisite: Two years of college-level Italian or the equivalent.
3 points M W 1:10-2:25 *III H*

ITA V 3993x-3994y
Seminar in Italian Literature
Required of students with a major or concentration in Italian. Open to other qualified students with permission of Departmental Representative.
—A. Ansani, T. Barolini, J. Cavallo, N. Moe, M. Pesaresi, L. Rebay
Hours TBA. *H*

ITA W 4039x
Imitation and Innovation in Italian Renaissance Theatre
Prerequisite: ITA V 1202 or F 1202, or the equivalent.
3 points. Not offered in 1995-96. *III H*

ITA W 4091x-W4092y
Dante's Divina Commedia
Prerequisite: ITA V 1202 or F 1202, or the equivalent.
3 points. Not offered in 1995-96. *III H*

ITA W 4150x
Notturno Italiano: 19th- and 20th-Century Italian Mystery Tale
Literary analysis of representative authors of the Italian mystery tale. Comparisons will be made with the tradition of the mystery tale in other European literatures. —M. Pesaresi
Prerequisite: Knowledge of Italian.
3 points. Tu Th 4:10-5:25 *III H*

ITA W 4502x
Italian Cultural Studies I: from Unification to World War I
An interdisciplinary study of Italian culture from the years of Unification (1860) to the outbreak of World War I. —N. Moe
3 points. M W 4:10-5:25 *III H*

ITA W 4503y
Italian Cultural Studies II: from World War I to Present
An interdisciplinary study of Italian culture from World War I to the present. —F. Colombo
3 points. M W 4:10-5:25 *III H*

ITA W 4200y
Once Upon a Time, in a Faraway Land: the Italian Fairy Tale (In English)
Prerequisite: Permission of the instructor. Optional 4th hour in Italian for majors/minors.
3 points. Not offered in 1995-96. *III H*

LINGUISTICS

411F Milbank Hall 854-5363, 3577

Professor: Joseph L. Malone (Chair)

Other Barnard officers offering courses listed below:

Professor: Robert Remez (Psychology)

Associate Assistant Professors: Mara Kashper (Russian), Gail Musen (Psychology), Anne Boyman (French)

Other officers of the University offering courses listed below:

Professors: Haim Gaifman (Philosophy), Robert Krauss (Psychology), Hilary Sachs

Assistant Professors: Frank Miller (Slavic), Mark J. Petrini (Classics)

REQUIREMENTS FOR THE MAJOR

Students interested in majoring in this discipline may, upon consultation with the Departmental Chair or his designated representative, petition the Committee on Programs and Academic Standing for a special major in Linguistics (see page 33).

REQUIREMENTS FOR THE MINOR

Students minoring in Linguistics must take five courses in the department, including V 1101.

COURSES OF INSTRUCTION

LIN V 1101x.
Introduction to Linguistics
Nature of language; characteristics of phonological and grammatical systems and the lexicon; evolution of language; role of linguistics in related disciplines; modern techniques of linguistic analysis. —J. Malone
Enrollment limited to 100 students. Advance sign-up required.
3 points. Tu Th 9:10-10:25 S

LIN V 3410y
The Science of Linguistics and the Art of Translation
Linguistic patterns and the application of linguistic techniques in both the process of translation and the comparison of original and translated versions of a text. Texts include literary, biblical, and journalistic material in bi- or multilingual versions, and students will use materials in languages familiar to them for analysis and translation. —J. Malone
Prerequisite: V 1101 or permission of the instructor. Enrollment limited to 25 students. Advance sign-up required. Offered in rotation with V 3412 and 3414.
3 points. Tu Th 9:10-10:25 S

LIN V 3412y
Linguistics and the Translation of Poetic Language
Linguistics as a tool in the translation of poems and other kinds of texts whose structure depends on phonetic and phonological patterns. Recent developments in linguistics (e.g., by Paul Kiparsky) relevant to the analysis of rhyme, meter, parallelism, and other sound-based configurations. Materials include monolingual and bilingual texts (poems, proverbs, etc., in several languages), some chosen by the instructor and others by the students.
Prerequisite: V 1101 or permission of the instructor. Enrollment is limited to 25 students. Advance sign-up required. Offered in rotation with V 3410 and V 3414.
3 points. Not offered in 1995-96. S

LIN V 3414y
Linguistics and the Structure of Texts
Application of linguistics techniques for elucidation of meaning and structure in various types of texts, especially poetry and prose. Modern techniques and traditional methods. Text used for illustration and analysis will be in various languages. —J. Malone
Prerequisite: V 1101 or permission of the instructor. Enrollment is limited to 25 students. Advance sign-up required. Offered in rotation with V 3410 and V 3412.
3 points. Not offered in 1995-96. S

LIN BC 3052y
Gender Systems
Enrollment limited to 25. Prerequisite: V 1101 or permission of the instructor. Advance sign-up required.
3 points. Not offered in 1995-96. S

LIN BC 3600y
Introduction to Semitic Languages and Linguistics

The Semitic language: historical development and typological nature. Reconstruction of ancestral languages; dialect relations; writing systems; philology; morphosyntactic, phonological, semantic characteristics. —J. Malone
Enrollment limited to 25. Advance sign-up required. Prerequisite: Previous or concurrent work in some Semitic language, or permission of the instructor.
3 points. Tu Th 10:35-11:50 S

LIN W 4204x
Introduction to Phonology

Prerequisite: For undergraduates, either V 1101 or permission of the instructor.
3 points. Not offered in 1995-96.

LIN W 4108y
Principles of Historical Linguistics

Prerequisite: For undergraduates, either V 1101 or permission of the instructor.
3 points. Not offered in 1995-96.

LIN W 4901x
Synchronic and Diachronic Generative Phonology

Prerequisite: For undergraduates, either V1101 or permission of the instructor.
3 points. Not offered in 1995-96.

LIN W 4903x
Semantics and Generative-Transformational Syntax

Contemporary approaches to the relation between linguistic meaning and form, with special emphasis on work within the Chomskian tradition. Transformational and phrase structure grammar, x-bar syntax, government and binding, lexical decomposition, logical form, minimalist theory. —J. Malone
Prerequisite: For undergraduates, either V 1101 or permission of the instructor.
3 points. Tu Th 10:35-11:50

PHI 3411x, y
Introduction to Symbolic Logic

—H. Gaifman
3 points: x: Tu Th 1:10-2:25
y: M W 11:00-12:15

PSY BC 3180x
Cognitive Psychology

—G. Musen
3 points. Hours TBA.

PSY BC 4232y
Production and Perception of Language

—R. Remez
3 points. Tu 6:00-8:00.

PSY W 2604y
Human Communication

—R. Krauss
3 points. Tu Th 10:35-11:50

FRRP W 3450y
French Dialectology

—Instructor TBA.
3 points. Hours TBA.

FRRP W 3510y
History of Romance Language

—H. Sachs
3 points. M W 9:00-10:25

RUS V 3421x
Russian Phonetics and Intonation

—M. Kashper
2 points. Tu Th 11:00-11:50

See Columbia College catalog for other courses in Linguistics.

MATHEMATICS

404 Altschul Hall 854-5331

Professor: David A. Bayer[1], Joan S. Birman (Chair)
Assistant Professor: Maia J. Fraser
Other officers of the University offering courses in Mathematics:
Professors: Hyman Bass, Robert Friedman, Patrick X. Gallagher, Dorian Goldfeld, Herve M. Jacquet, Troels Jørgensen, Masatake Kuranishi, John W. Morgan, Duong Hong Phong, Henry Pinkham
Associate Professors: Xiao-Song Lin, Nadia Benakli
J. F. Ritt Assistant Professors: Sean Bates, Gabor Francsics, Michael Grossberg, Paul Gunnells, Ming Hyong Kim, Igor Krichever, Ramanujachary Kumandori, Daniel Lieman, Jie Qing, Michael Smirnov, Jonathan Weitsman, Gretchen Wright
[1]Absent on leave 1995-96

The Mathematics Department offers a wide range of courses, which fall into groups: service courses for students who need to learn the tools of mathematics, courses in the majors' program in pure mathematics (including a regular track and an honors track), and courses in the majors' program in applied mathematics. Students interested in Computer Science should consult the program listing of that department, page 113.

GENERAL INFORMATION

A passing grade on the Basic Math Skills test is required for entry into any of the offerings of the Mathematics Department. Students who fail that test must pass Quantitative Reasoning BC 1001 *Basic Mathematics Skills* before they can be admitted to any mathematics courses.

The pre-calculus offering is W 1003, *College Algebra and Analytic Geometry*.

Mathematics V 1010 *Groups and Symmetries*, and V 1011 *Surfaces and Knots* are appropriate choices for students who are seeking a course which is not too difficult and which is distinctly different from high school mathematics. These courses are designed for students who do not intend to continue with any of the calculus offerings.

The systematic study of college mathematics begins with one of the following three alternative four-term sequences: *Calculus IA, IIA, IIIA, IIIS/IVA (MAT V 1101, V 1102, V 1205/ V 1202); Calculus IS, IIS, IIIS/IVA (MAT V 1105, V 1106, V 1205/V 1202); Honors Mathematics I, II, III, IV(MAT V 1107, V 1108, V 1207, V 1208).*

The A-sequence is a standard course in differential and integral calculus. The S-sequence covers the same topics as A, but is taught at a faster pace, so as to allow well-prepared students to cover more rapidly the calculus needed for their studies.

The S-sequence covers in two semesters the same material as is covered in the A-sequence in three semesters.

CAUTION: Students who take IIA after completing IS are repeating one point of material, and therefore will only receive 2 points of credit for IIA.

The four-term Honors Mathematics sequence is designed for students with strong mathematical talent and motivation. Included in the course is the material of the calculus sequences, so it does not presume high school calculus. However, it is a much more general introduction to mathematical methods and thought, including topics that are applicable in a wide variety of fields. It will not be repetitious for students who have had high school calculus. Classes are typically small and congenial. This is the most attractive and efficacious course available to mathematically talented freshmen, whether or not they intend to be mathematics majors. Students who contemplate taking Honors Mathematics should consult with the instructor. If this is not possible ahead of time, they should register and attend the first class. Transfer to a calculus course, if appropriate, can be easily arranged during the term.

A fourth sequence on the first year level, *Calculus for Social Sciences I, II*, is designed for

prospective Social Sciences and Humanities majors.

Students who have passed the advanced placement test for *Calculus AB* with a grade of 5 or BC calculus with a grade of 4 or 5 will be allowed to start with *Calculus IIS* and receive 4 points of credit. Students with 3 or less on an advanced placement test will receive no credit. Those who passed *Calculus AB* with a grade of 4 will have to take a placement test with the Mathematics Department before being allowed to start with *Calculus IIS*. They will receive 4 points of credit only after passing *Calculus IIS*.

Students who have special placement problems should go to Room 404 Mathematics (or 404 Altschul) to arrange an appointment with a faculty member or the chair during Orientation Week.

Two help rooms, one in 404 Mathematics and one in 404 Altschul, will be open all term (hours will be posted on the door), for students seeking individual help and counseling from the instructors and teaching assistants.

REQUIREMENTS FOR THE MAJOR

In the second half of the sophomore year or earlier, prospective majors should register with the Chair or with the administrative assistant (404 Altschul) to choose a departmental adviser. The major programs in both pure and applied mathematics are appropriate for students who plan to continue their training in graduate school.

Students who are interested in an applied mathematics major with an emphasis on applications to economics should consult with a faculty member to plan an individual program.

Courses for a major in mathematics: 42 points (or 41 points if the Calculus S sequence is chosen): 11 or 12 points in *Calculus S* or *A* or *Honors MAT, I-IV;* 18 points in mathematics courses numbered above 2000; and 12 points in any combination of mathematics and cognate courses. The courses in mathematics must include *MAT V 2010, W 4041-W 4042, W 4061- W 4062,* and at least one term of *MAT V 3951- V 3952.* In exceptional cases, the Chair will approve the substitution of certain more advanced courses for those mentioned above. However, students who are not contemplating graduate study in mathematics may replace one or both of the two semesters of MAT W 4061-W 4062 with MAT V 2500 and/or MAT W 4032.

Courses for a major in applied mathematics: 42 points (or 41 points if the Calculus S sequence is chosen): 11 or 12 points in *Calculus S* or *A* or *Honors Mathematics, I-IV*; 3 points in *MAT V 2010*; 3 points in *MAT W 4061*; 8 points in *APM E 4901-4902* (no points in the junior year), *APM 4903-4904* (6 points in the senior year); 18 points in electives from the following courses: *MAT V 2500; MAT V 3030; MAT V 3027; MAT V 3028; MAT V 3007; MAT W 4032; Statistics IEOR W 3658; APM E 4300*; and others (with the approval of the Applied Mathematics Committee). The electives should include *MAT V 3030* or *MAT V 3027 Statistics—IEOR W 3658. MAT W 4061* can be replaced by *MAT V 2500 or MAT W 4032.*

REQUIREMENTS FOR THE MINOR

Six courses are required for the minor, consisting of courses numbered 1200 or above from the departmental offerings, subject to the approval of the Chair.

COURSES OF INSTRUCTION

MAT W 1003x, y
College Algebra and Analytic Geometry

For students who do not have a firm enough grasp of basic mathematics to begin the study of calculus. Topics include: linear functions, introduction to the exponential and logarithm functions and to algebraic functions, trigonometry, vectors in the plane. —Staff
3 points.
x: Sec. 1 M W F 1:10-2:25
Sec. 2 Tu Th 7:10-9:05
Sec. 3 M W 9:00-10:55
Sec. 4 Tu Th 4:10-6:05
Sec. 5 M W 6:10-8:05
y: Sec. 1 M W F 1:10-2:25
Sec. 2 Tu Th 7:10-9:05
Sec. 3 M W 9:00-10:55
Sec. 4 Tu Th 4:10-6:05
Sec. 5 M W 6:10-8:05

MAT V 1010x
Groups and Symmetry

An elementary introduction to the concept of a group. Groups of symmetries in art, architecture, and science. Groups of permutations. —G. Wright
Prerequisite: Intermediate algebra and trigonometry.
3 points. M W F 9:00-9:50

MAT V 1011y
Surfaces and Knots

An elementary introduction to contemporary topology. Topological graph theory. Surfaces, knots, links, and braids. —G. Wright
Prerequisite: Intermediate algebra, geometry, and trigonometry.
3 points. M W F 9:00-9:50

MAT V 1101x, y
Calculus IA

Functions, limits, derivatives; introduction to integrals. —Staff
Prerequisite: a firm grasp of high school mathematics through trigonometry, or MAT W 1003 or the equivalent. The Help Room on the 4th Floor of Altschul Hall (hours posted on door) is open to students seeking individual help from the instructors and teaching assistants.
3 points.
x: Sec. 1 M W F 10:00-10:50 —TBA
Sec. 2 M W F 11:00-11:50 —S. Qing
Sec. 3 M W F 11:00-11:50 —TBA
Sec. 4 M W 1:10-2:25 —TBA
Sec. 5 M W 2:40-3:55 —TBA
Sec. 6 Tu Th 9:10-10:25 —N. Benakli
Sec. 7 Tu Th 10:35-11:50 —N. Benakli
Sec. 8 Tu Th 6:10-7:25 —S. Bates
y: Sec. 1 M W 4:10-5:25 —M. Fraser
Sec. 2 M W 6:10-7:25 —M. Fraser
Sec. 3 Tu Th 4:10-5:25 —M. Grossberg

MAT V 1102x, y
Calculus IIA

Methods of integration; applications of the integral; Taylor's Theorem; infinite series. —Staff
Prerequisite: Course V 1101 or the equivalent.
3 points.
x: Sec. 1 M W F 10:00-10:50 —S. Qing
Sec. 2 M W 4:10-5:25 —M. Fraser
Sec. 3 M W 6:10-7:25 —M. Fraser
y: Sec. 1 M W F 10:00-10:50 —TBA
Sec. 2 M W F 11:00-11:50 —TBA
Sec. 3 M W 1:10-2:25 —TBA
Sec. 4 M W 2:40-3:55 —TBA
Sec. 5 Tu Th 9:10-10:25 —N. Benakli
Sec. 6 Tu Th 6:10-7:25 —S. Bates

MAT V 1105x
Calculus IS

Differentiation and integration, applications, transcendental functions, techniques of integration. Lectures: 3 hours; problem session: 1 hour. Students must register for the problem session.
4 points.
Sec. 1 M W F 10:00-10:50 —D. Lieman
Sec. 2 M W F 11:00-11:50 —D. Lieman
Sec. 3 M W 1:10-2:25 —D. Goldfeld

MAT V 1106x, y
Calculus IIS

Improper integrals, Taylor's formula, infinite series, complex exponential vectors in R22 and R33, vector-valued functions of one variable, scalar-valued functions of several variables, partial derivatives, gradient surfaces, optimization, and the method of Lagrange multipliers. Lecture: 3 hours; problem session: 1 hour. Students must register for the problem session. Some calculus background assumed.
Prerequisite: Course V 1105 or the equivalent.
4 points.
x: Sec. 1 M W F 9:00-9:50 —P. Gallagher
Sec. 2 M W F 10:00-10:50 —M. Smirnov
Sec. 3 M W F 11:00-11:50 —M. Smirnov
y: Sec. 1 M W F 10:00-10:50 —D. Lieman
Sec. 2 M W F 11:00-11:50 —D. Lieman
Sec. 3 M W 1:10-2:25 —D. Goldfeld

MAT V 1107x, 1108y
Honors Mathematics I-II

For further information see the discussion under "General Information," page 184 —X.S. Lin
3 points. M W F 11:00-11:50

MAT V 1111x, 1112y
Calculus for Social Sciences I & II

The level of this course is the same as that of Mathematics V 1101, V 1102, but the syllabus is modified to meet the special needs of economics students. x: Derivatives, transcendental functions, curve-sketching, optimization problems in one variable, partial derivatives, optimization; y: integrals, differential equations, infinite series, Taylor's formula.V 1111: derivatives, transcendental functions, partial derivatives, optimization. V 1112: integrals, differential equations, infinite series, Taylor formula, applications of the calculus to probability.
Prerequisite: Same as for V 1101, V 1102.
3 points.
x: M W F 10:00-10:50 —R. Kumandori
y: M W F 10:00-10:50 —R. Kumandori

MAT V 1201x, y
Calculus IIIA

Vectors in dimensions 2 and 3; vector valued functions and their derivatives; curves. Functions of several variables; partial derivatives; gradients; surfaces; extrema, double and triple integrals.
Prerequisite: Course V 1102 or the equivalent.
3 points.
x: Sec. 1 Tu Th 9:10-10:25 —T. Jørgensen
Sec. 2 Tu Th 1:10-2:25 —I. Krichever
y: Sec. 1 Tu Th 6:10-7:25 —M. Grossberg

***MAT V 1202y* Calculus IVA**
***MAT V 1205x, y* Calculus IIIS**

Multiple integrals, Taylor's formula in several variables, line and surface integrals, calculus of vector fields.
Prerequisite: Course V 1106 or V 1201 or the equivalent.
3 points.
1202y: Tu Th 1:10-2:25 —I. Krichever
1205x: Sec. 1 Tu Th 10:35-11:50 —M. Grossberg
Sec. 2 Tu Th 1:10-2:25 —M. Grossberg
Sec. 3 Tu Th 6:10-7:25 —M. Kim
1205y: Sec. 1 M W F 9:00-9:50 —P. Gallagher
Sec. 2 M W F 10:00-10:50 —M. Smirnov
Sec. 3 M W F 11:00-11:50 —M. Smirnov

MAT V 1207x, 1208y
Honors Mathematics III, IV

—J. Birman
Prerequisite: Course V 1107- V 1108. Course V 1207 is the prerequisite for V 1208.
3 points. Tu Th 1:10-2:25

MAT V 2010x or y
Linear Algebra

Vector spaces, linear transformations, matrices, quadratic and hermitian forms, canonical forms, applications. —H. Pinkham
Prerequisite: Calculus II S or III A or the equivalent.
3 points. x: Tu Th 9:10-10:25
y: Tu Th 9:10-10:25

MAT V 2500y
Analysis and Optimization

Topics in analysis used in optimization theory. Least upper bound, topology of Rn, continuous functions, differential functions. Quadratic forms, Hessian, implicit functions. Convex sets, convex functions. Survey of linear, quadratic, geometric programming. Optimization under constraints; equalities and inequalities. Algorithms. Elements of the calculus variations and optimal control. —H. Jacquet
Prerequisite: Calculus IS, IIS or the equivalent.
Corequisite: Linear Algebra.
3 points. Tu Th 2:40-3:55

MAT V 3007x, y
Complex Variables

Elementary course in functions of a complex variable; fundamental properties of the complex numbers; differentiability. Cauchy-Riemann equations; Cauchy integral theorem; Taylor and Laurent series poles and essential singularities; residue theorem and conformal mapping. —P. Gallagher
Prerequisite: V 1205.
3 points. M W 4:10-5:25

MAT V 3020x
Elementary Number Theory

Congruences. Primitive roots. Quadratic residues. Contemporary applications. —R. Kumandori
Prerequisite: One year of calculus.
3 points. M W 1:10-2:25

MAT V 3021y
Combinatorial Number Theory

Advanced topics in number theory. Continued fractions. Approximations by rational numbers. Transcendental numbers. Arithmetic functions. Partitions of numbers and their generating functions. Stress on the combinatorial and algorithmic aspects of number theory. Contemporary applications. —R. Kumandori
Prerequisite: MAT V 3020 or MAT W 4041.
3 points. M W 1:10-2:25

MAT V 3027x
Ordinary Differential Equations

Equations of order one: linear equations series solu-

tions at regular and singular points, boundary value problems; selected applications. —G. Francsics
Prerequisite: MAT 1201 or the equivalent.
3 points. Tu Th 4:10-5:25

MAT V 3028y
Partial Differential Equations
Introduction to partial differential equations; first-order equations; linear second-order equations; separation of variables; solution by series expansions; boundary value problems. —G. Francsics
Prerequisite: Course V 3027 or the equivalent.
3 points. Tu Th 4:10-5:25

MAT V 3030x
Dynamical Systems
Systems, in particular, linear systems of differential equations. Qualitative study of the solutions. —TBA.
Prerequisite: MAT V 1202 or V 1205, and MAT W 2010.
3 points. Not offered in 1995-96.

MAT V 3901 x, 3902y
Supervised Readings in Mathematics
Guided reading and study in mathematics. A student who wishes to undertake individual study under this program must present a specific project to a member of the staff and secure his or her willingness to act as sponsor. Sponsorship is limited to full-time instructors on the staff list. Written reports and periodic conferences will be required. —Staff
Permission of the Chair and of the staff member who agrees to act as sponsor is required.
2 or 3 points. Hours TBA.

MAT V 3951 x, 3952y
Undergraduate Seminars in Mathematics
Subject matter is announced at the start of registration and is different in each section. Each student prepares talks, to be given to the seminar, under the supervision of a faculty member or senior teaching fellow. —H. Bass
Prerequisite: Two years of calculus and at least one year of additional mathematics courses, and the permission of the department Chair.
3 points. Hours TBA.
Consult 4th-floor bulletin board, Mathematics Building, for organizational meeting date and time, during registration period.

MAT W 4032x
Fourier Analysis
Fourier series and integrals, discrete analogues, inversion and Poisson summation formulae, convolution, Heisenberg uncertainty principle. The course will stress the application of Fourier Analysis to a wide range of disciplines. —H. Jacquet
Prerequisite: Three terms of calculus and linear algebra or four terms of calculus.
3 points. Tu Th 2:40-3:55

MAT W 4041x, W 4042y
Introduction to Modern Algebra
The second term of this course may not be taken without the first. Groups, homomorphisms, ring ideals, fields, polynomials, and field extensions. Galois theory. —G. Wright
Prerequisite: MAT V 1205, V 2010.
3 points. M W 2:40-3:55

MAT W 4061x, 4062y
Introduction to Modern Analysis
The second term of this course may not be taken without the first. Real numbers, metric spaces, elements of general topology. Continuous and differentiable functions. Implicit functions. Integration; change of variables. Function spaces. Further topics chosen by the instructor. —S. Bates
Prerequisite: MAT V 1205 or the equivalent, and MAT V 2010.
3 points. Tu Th 4:10-5:25

APM E 4901x-4902y
Seminar: Problems in Applied Mathematics
Required for all applied mathematics majors in the junior year. Introductory seminars on problems and techniques in applied mathematics. Typical topics of nonlinear dynamics, scientific computation, economics, and operations research. —C.K. Chu
Prerequisite or corequisite: MAT V 3007, V 3028, and V 2010, or their equivalents.
No points. Tu 12:00-1:00

APM E 4093x, y
Seminar: Problems in Applied Mathematics
Required for all applied mathematics majors in the senior year. It consists of the same weekly lecture as Engineering Mathematics E 4901-4902 plus two hours of tutorials a week. Examples of problem areas are nonlinear dynamics, asymptotics, approximation theory, and numerical methods. —C.K. Chu
Prerequisite or corequisite: MAT V 3007, V 3028, and V 2010, or their equivalents.
3 points. Tu 12:00-2:00, Th 1:00-2:00

GRADUATE COURSES

Certain graduate courses given in the University are open to qualified majors with the consent of the major adviser. These courses are described in the Bulletin of the Graduate School of Arts and Sciences.

MEDIEVAL AND RENAISSANCE STUDIES

419 Barnard Hall 854-3453

This program is supervised by the Committee on Medieval and Renaissance Studies:

Professors of Art History: Keith Moxey, Jane Rosenthal[1]

Associate Professor of Classics: Carmela Franklin (CU)

Professor of Classics: Lydia Lenaghan[1]

Assistant Professors of English: Paula Loscocco, Peter Platt, Timea Szell

Professor of English: Anne Prescott

Associate Professor of English: Christopher Baswell (Chair)

Assistant Professor of French: Catharine Randall

Lecturer in German: Regina Ayre

Professor of History: Caroline Bynum (CU)

Assistant Professor of History: Joel Kaye[2]

Assistant Professor of Italian: Antonella Ansani

Professor of Philosophy: Alan Gabbey

Professor of Religion: Robert Somerville (CU)

Professor of Spanish: Marcia Welles

[1]Absent on leave Spring term.
[2]Absent on leave 1995-96.

This program enables undergraduates to acquire a thorough knowledge of the most important aspects of Medieval or Renaissance civilizations and to gain an awareness of the interdependence of historical and cultural developments.

REQUIREMENTS FOR THE MAJOR

Major programs are established individually with a concentration in one of the disciplines: art history, history, literature, philosophy, romance philology, music, or religion. Each student, after consultation with the chair, chooses an adviser in her area of concentration who guides her in developing a sequence of courses to be taken in the field.

A minimum of 11 courses is required for the major in Medieval and Renaissance Studies:

Five courses in the area of concentration;
Two history courses for students not concentrating in history;
Two courses in the other disciplines mentioned above for those who are;
Two electives in areas outside the concentration, to be chosen in consultation with the adviser; and MRS BC 3998x and MRS BC 3999y, *Directed Research*, a two-semester program of interdisciplinary research leading to the writing of the senior essay. In some cases, a senior seminar in one of the departments may be substituted for MRS BC 3998x or 3999y.

Students are required to write an interdisciplinary senior essay based on two semesters of research in their field of concentration and in another discipline, carried out under the supervision of their area adviser and another from the second discipline. The choice of topic for this senior project and the appointment of a second adviser are determined in consultation with the area adviser and the chair of the program.

In addition to the language used to fulfill the general four-semester requirement for graduation, the student must have completed two semesters of a second language (or the equivalent) relevant to her area of concentration.

No minor is offered in Medieval and Renaissance Studies.

COURSES OF INSTRUCTION

MRS BC 3998x, 3999y
Directed Research for the Senior Project
Two semesters of supervised interdisciplinary research in Medieval or Renaissance Studies terminating in the writing of a senior essay. The program of research is determined in consultation with the chair and under the guidance of the area adviser. It is supervised by the latter and an adviser from the second discipline involved in the project.
—Staff
4 points. Hours TBA.

OTHER MEDIEVAL AND RENAISSANCE STUDIES COURSES

Art History

ARH BC 3351x
Early Christian and Early Medieval Art
—J. Rosenthal
3 points. M W 2:40-3:55 *III H*

ARH BC 3352y
Art of the Later Middle Ages
—T. Dale
3 points. M W 2:40-3:55 *H*

ARH W 3400x
Italian Renaissance Painting I: 15th-Century
—J. Beck
3 points. Tu Th 4:10-5:25 *H*

ARH W 3437y
Italian Renaissance Painting II: 17th-Century
—J. Beck
3 points. Tu Th 4:10-5:25 *H*

ARH W 4480y
Art in the Age of the Reformation
—K. Moxey
3 points. Tu Th 10:35-11:50 *H*

ARH W 4356y
Gothic Painting in France
—J. Rosenthal
3 points. M W 4:10-5:25 *H*

Classics

LAT V 3033y
Medieval Literature
—C. Franklin
3 points. M W 1:10-2:25 *H*

LAT W 4152x
Medieval Latin: Prose
—C. Franklin
3 points. M W 9:10-10:25 *H*

English

ENG BC 3155y
Chaucer
The Canterbury Tales. —C. Baswell
3 points. Tu Th 9:10-10:25 *H*

CPE BC 3158x
Medieval Literature
—T. Szell
3 points. Tu Th 4:10-5:25 *H*

ENG BC 3163x, 3164y
Shakespeare
—P. Platt
3 points. M W 11:00-12:15

ENG BC 3165x
The English Renaissance
—A. Prescott
3 points. M W 1:10-2:25 *H*

ENG BC 3166x
Seventeenth-Century Prose and Poetry
—P. Loscocco
3 points. Tu Th 10:35-11:50 *III H*

ENG BC 3167y
Milton
—P. Loscocco
3 points. Tu Th 10:35-11:50 *III H*

ENG BC 3169y
Renaissance Drama: 1580-1642
—P. Platt
3 points. M W 2:40-3:55 *III H*

ENG BC 3997x

1. Medieval Images of Women
—T. Szell
4 points. W 2:10-4:00

2. Wit and Humor in the Renaissance
—A. Prescott
4 points. Tu 4:10-6:00 *III H*

ENG BC 3998y

1. Epic and Romance
—C. Baswell
4 points. Th 2:10-4:00 *H*

2. Women in the English Renaissance
—P. Loscocco
4 points. Tu 2:10-4:00 *H*

French

FRE BC 3023x
The Culture and Institutions of France
—C. Randall
3 points. Tu Th 2:40-3:55 *H*

FRE BC 3033x
Crisis in Early Modern Literature
—C. Randall
3 points. Tu Th 2:40-3:55 *III H*

German

GER BC 3047y
The Golden Age of German Medieval Literature
—R. Ayre
3 points. Tu Th 2:20-3:55 *III H*

History

HIS W 1145x
Medieval People
—C. Bynum
3 points. Tu Th 9:10-10:25 *S*

HIS W 3203y
Carolingian Europe
—C. Bynum
3 points. Tu Th 9:10-10:25 *S*

Italian

ITA V 3891y
Dante, La Divina Commedia
—L. Rebay
3 points. M W 1:10-2:25 *III H*

Music

MUS W 4104x
The Musical Universe of Palestrina, Lasso, and Victoria
—L. Perkins
3 points. Tu Th 4:10-5:25 *H*

Philosophy

PHI V 1202y
The History of Philosophy: II
—C. Mercer
3 points. M W 2:40-3:55 *III H*

PHI V 3230x
Seventeenth-Century Philosophy
—A. Gabbey
Prerequisite: One philosophy course or permission of the instructor.
3 points. Tu Th 1:10-2:25 *III H*

Religion

HIS V 3530y
History of the Papacy
—R. Somerville
3 points. Tu Th 11:00-12:15 *S*

REL V 2610x
Christianity
—R. Somerville
3 points. Tu Th 11:00-12:15 *H*

REL V 3418y
Orthodox Christianity
—A. Akexakis
3 points. M W 2:40-3:55 *III H*

REL V 3450y
From Soul to Self: The Reformation and the Birth of Modernity
—C. Randall
4 points. Tu Th 2:10-4:00 *III H*

Spanish

SPA BC 3129x
Literature of the Golden Age
—M. Welles
3 points. M W 2:40-3:55 *H*

SPA BC 3150y
The Deceived Husband: Passion, Perversion, and Death
—M. Welles
Prerequisite: Completion of language requirement.
3 points. M W 2:40-3:55 *III H*

CPS BC 3010y
Picaresque Narratives: The Discourse of Disorder *(in English)*
—M. Welles
3 points. Tu Th 4:10-5:25 *I H*

For other Columbia courses and graduate courses, please consult the proper catalogues and see Professor Baswell.

MUSIC

Barnard Office: 217 Milbank Hall — Telephone: 854-5096
Columbia Department of Music: 703 Dodge — 854-3825

Lecturer: Gail Archer (Coordinator)

Other officers of the University offering courses listed below:

Professors: Ian Bent, Dieter Christensen[2], George Edwards, Walter Frisch (Chair), Jonathan Kramer[1], Fred Lerdahl, Leeman L. Perkins, Elaine R. Sisman

Associate Professors: Joseph Dubiel, Brad Garton, Cynthia Gessele, David Rakowski[1], Mark Tucker

Assistant Professors: Mark De Bellis, Daniel Ferguson, Thomas Payne

Adjunct Assistant Professors: Luann Dragone, Francesca Rebollo-Sborgi

Director of Music Performance: George Rothman

Associates: Sarah Adams, Anahid Ajemian, Gail Archer, Eric Bartlett, Allen Blustine, David Braynard, Marshall Coid, Kenneth Cooper, Maureen Gallagher, Christopher Gekker, Laura Goldberg, Christine Gummere, Donald Hayward, Claire Heldrich, Louis Kaplan, Mindy Kaufman, Alan Kay, Anthony Korf, Linda McKnight, Morris Newman, Niels Østbye, Munzko Otani, Susan Palma, James Preiss, William Purvis, George Rothman, Mark Shuman, Don Sickler, Michael Skelly, George Stauffer, Lisa Terry

[1]Absent on leave 1995-96

[2]Absent on leave Spring term.

REQUIREMENTS FOR THE MAJOR

Program of Study: to be planned with the department consultant before the end of the sophomore year. Prospective music majors should complete the prerequisites by the end of their sophomore year and are encouraged to complete them by the end of their first year. By the end of her first year as a music major she should select a faculty adviser.

Prerequisite: BC 1001 or 1002 or HUM C 1123 or MUS F 1001, MUS V 1001 *Fundamentals of Western Music*, and MUS V 1312 *Introductory Ear-training*. Prospective music majors are advised to satisfy the prerequisites prior to their declaration as majors or before the end of their sophomore year. This requirement may be fulfilled either through successful completion of the course or satisfactory performance on examinations administered each semester by the department.

Courses: At least 38 points, including Music V 2318-V 2319 *Diatonic Harmony and Counterpoint*; V 3321-V 3322 *Chromatic Harmony and Counterpoint*; four semesters of ear-training unless exempt by exam, and any **one** of the 3000-level advanced theory electives; and any **two** of the following four history courses: V 3123 *Music of the Middle Ages and Renaissance*, V 3124 *Music of the Baroque*; V 3125 *Music of the Classical and Romantic Periods*; and V 3126 *Music of the Modern Period*. The remaining 13 points are chosen from 2000- to 4000-levels. At least one 3000-or 4000-level course must deal with non-tonal music. No more than 6 points of 2000-level courses and no more than 4 points of instrumental or vocal lessons will count toward the major.

Senior Exercise: Working with her adviser, a major must complete an original project in her senior year. Normally, it may be the expansion of a paper done in a 4000-level course (as long as it deals with primary sources), a composition, or a recital.

Keyboard Proficiency: Music majors will be required to take a keyboard proficiency exam, which must be arranged by making an appointment with a member of the piano faculty, immediately upon declaration of the major. If they do not pass the exam, they will be required to take MUS W 1517x-W 1518y, for 1 point each term, which will count against the maximum 4 points allowed toward completion of the major.

Languages: For students who plan to do graduate work in music, the study of German, French, Italian, and/or Latin is recommended.

Note: With the permission of Gail Archer, Barnard Coordinator, students may take courses or lessons at the Manhattan School of Music or the Juilliard School. For non-majors, there is a six-semester limit, but majors may continue for the remainder of their program.

Practice rooms: Piano practice rooms are available, at a nominal fee, upon application to the Music Department in 328C Milbank. Application should be made during the first week of classes. Preference in assigning hours is given to students taking piano instruction, majors, and concentrators, in order of application. The organ studio in St. Paul's Chapel is available for organ practice. Arrangements should be made with the chapel organist during the first week of classes.

REQUIREMENTS FOR THE MINOR

Courses for the minor: Four terms of Theory, four terms of Ear-training, and two terms of History.

PERFORMANCE ACTIVITIES

Participation in the following activities is open to all members of the University community. Music majors are urged to join at least one of the groups. Students who wish to receive course credit may register for the courses as listed.

Columbia University Orchestra and **Chamber Ensemble**. George Rothman, conductor and director of the Music Performance Program. See Music V 1591x-92y and MUS V 1598-99y for the audition schedule and description of activities.

Barnard-Columbia Chorus and **Chamber Singers**. Gail Archer, director. See MUS V 1593x-94y and MUS V 1595x-96y for audition information and description of activities.

University Jazz Orchestra. Don Sickler, director. See MUS V 1585x-86y for audition information and description of activities.

Instrumental and Vocal Instruction. With appropriate prior approval, qualified students may take music lessons, one course per term, for a maximum of six terms. The first two terms are unrestricted; during the **third and fourth** terms a student must take two courses in the history, literature, or theory of music concurrently with the music lessons. Only the Music major may take lessons every term. Written permission from the Dean is required.

Collegium Musicum. Auditions are held at the beginning of each term. The aim of the Collegium Musicum is to perform neglected and unfamiliar vocal and instrumental music. Activities are supervised by the graduate student director, and the Collegium ususally gives two public concerts each semester.

COURSES OF INSTRUCTION

MUS BC 1001x, BC 1002y
An Introduction to Music

x: A survey of the development of Western music from 6th-century Gregorian Chant to Mozart with emphasis upon important composers and forms. Extensive listening required.
y: A survey of the development of Western music from the first Viennese Classical school at the end of the 18th century to the present with emphasis upon composers and forms. Extensive listening required. —Staff
No previous knowledge of music is required.
3 points.
Sec. 1 M W 1:10-2:25 —G. Archer
Sec. 2 Tu Th 1:10-2:25 —G. Archer *H*

MUS V 1002x, y
Fundamentals of Western Music

A student may place out of this course with a score of 5 on the Advanced Placement Examination or by an examination given by the Department at the beginning of the semester. The basic elements of music to be studied with the aim of developing musicianship will include notation, dictation, sight-singing, transposition, aural recognition of the simpler forms, triad identification, cadence types, voice-leading in two parts. —Instructor TBA.
Corequisite: MUS V 1312
3 points. x: M W 9:10-10:25
y: Sec. 1 M W 9:10-10:25
Sec. 2 M W 5:10-6:25 *H*

MUS BC 1501x, BC 1502y
Voice Instruction
Entrance by audition only (call Department during registration for time and place of audition). One hour private lesson weekly. —Staff
1 point. Hours TBA.

Theory and Ear-Training Sequence

MUS V 2318x-V 2319y
Diatonic Harmony and Counterpoint, I and II
Principles of melodic construction, voice leading, harmony, and counterpoint in modal and tonal music. Composition of exercises and pieces in prescribed styles; close analysis of selected compositions.
Prerequisite: MUS V 1002 or the equivalent. Corequisite, x and y: an ear-training lab to be determined by a placement exam given at the beginning of the term.
3 points. Sec. 1 Tu Th 1:10-2:25—J. Kramer
Sec. 2 Tu Th 5:10-6:25—M. DeBellis

MUS V 3321x-V 3322y
Chromatic Harmony and Counterpoint, I and II
Principles of chromatic voice leading and chromatic chord construction. Composition of exercises and pieces in prescribed styles; close analysis of selected compositions. —J. Dubiel
Prerequisite: MUS V 2318-2319 and completion of any two semesters of ear-training, the most recent with a grade of B- or better. Corequisite, x and y: an ear-training lab.
3 points. Hours TBA.

Please note: For the following ear-training labs, students must take a placement test at the beginning of the term and may not register without the permission of the Ear-training Coordinator.

MUS V 1312x, y
Introductory Ear-training
Introduction to basic skills in sight reading. Instruction includes reading rhythms in simple meter, solfege recitation, and sight-singing simple melodies. —Instructor TBA.
1 point. x: Sec.1 M W 3:10-4:00
Sec. 2 Tu Th 3:10-4:00
y: Secs. 1, 3 M W 3:10-4:00
Secs. 2, 4 Tu Th 3:10-4:00

MUS V 2314x, y
Ear-training, I
Designed to improve the student's basic skills in sight-singing and rhythmic and melodic dictation with an introduction to four-part harmonic dictation. —Instructor TBA.
1 point. x: Secs. 1, 3 M W 3:10-4:00
Sec. 2 Tu Th 3:10-4:00
y: Sec. 1 M W 3:10-4:00
Sec. 2 Tu Th 3:10-4:00

MUS V 2315x, y
Ear-training, II
Techniques of sight-singing and dictation of diatonic melodies in simple and compound meter, with strong emphasis on harmonic dictation. —Instructor TBA.
1 point. Secs. 1, 3 M W 3:10-4:00
Sec. 2 Tu Th 3:10-4:00

MUS V 3316x, y
Ear-training, III
Sight-singing techniques of modulating diatonic melodies in simple, compound, or irregular meters which involve complex rhythmic patterns. Emphasis is placed on four-part harmonic dictation of modulating phrases. —Instructor TBA.
1 point. Tu Th 3:10-4:00

MUS V 3317x, y
Ear-training, IV
Techniques of musicianship at the intermediate level, stressing the importance of musical nuances in sight-singing. Emphasis is placed on chromatically inflected four-part harmonic dictation. —Instructor TBA.
1 point. Tu Th 3:10-4:00

MUS W 4318x-4319y
Ear-training, V and VI
Advanced dictation, sight-singing, and musicianship, with emphasis on 20th-century music. —L. Dragone
1 point. Tu Th 11:00-11:50

MUS V 2008y
Score Preparation Technique
A study of the conventions of musical notation and the production of musical scores and parts, aimed at enabling composers to communicate their musical thoughts to performers and analysts. —D. Rakowski
Prerequisite: Ability to read musical notation.
1 point. W 4:10-5:00

MUS V 2010y
Race, Gender, and the Politics of Rock'n'Roll
Prerequisite: BC 1001 or 1002 or HUM C 1123 or MUS F 1001.
3 points. Not offered in 1995-96.

MUS V 2016y
Jazz
The musical and cultural features of jazz, beginning in 1900. —Instructor TBA.
Prerequisite: BC 1001 or 1002 or HUM C 1123 or

MUS F 1001 or the equivalent.
3 points. Tu Th 1:10-2:25 *III H*

MUS V 2023x
Beethoven

A study of the life and works of Ludwig van Beethoven, with emphasis on selected symphonies, string quartets, and piano sonatas. Also considers the changing nature of the critical reception of Beethoven and issues of Classicism and Romanticism in music. —E. Sisman
Prerequisite: BC 1001 or 1002 or HUM C 1123 or MUS F 1001 or the equivalent.
3 points. Tu Th 1:10-2:25 *H*

MUS V 2025x
The Opera

The development of opera from Monteverdi to the present. —C. Gessele
Prerequisite: BC 1001 or 1002 or MUS F 1001 or HUM C 1123 or the equivalent.
3 points. M W 4:10-5:25 *H*

MUS V 2027y
The String Quartet

The string quartet from its beginnings ca. 1760, to the present day, with special focus on the principal exponents, Haydn, Mozart, Beethoven, Schubert, Brahms, Schoenberg, Bartók, and Shostakovich. Linked, wherever possible, with the String Quartet series of the Kathryn Bache Miller Theatre. —I. Bent
Prerequisite: MUS BC 1002y or MUS C/F 1123 or the equivalent.
3 points. M W 1:10-2:25 *H*

MUS V 2205x, y
MIDI Music Production Techniques

An introduction to the potential of digital synthesis by means of the MIDI (Musical Instrument Digital Interface). The goals of the course, in addition to teaching proficiency in elementary and advanced MIDI techniques, will be to challenge some of the assumptions about music built into the MIDI specifications and to foster a creative approach to using MIDI machines. — B. Garton
Prerequisite: BC 1001 or 1002 or HUM C 1123 or MUS F 1001 or the equivalent.
3 points. Tu Th 1:10-2:25

MUS V 3123x
Music of the Middle Ages and Renaissance

Western music from plainchant to Monteverdi. —L. Perkins
Prerequisite: HUM F 1123 and MUS V 1002 or the equivalent. Pre- or corequisite: MUS V 2318 - V 2319.
3 points. M W 1:10-2:25

MUS V 3124y
Music of the Baroque

Western music from Monteverdi to Bach and Handel. —C. Gessele
Prerequisite: HUM F 1123 and MUS V 1002 or the equivalent. Pre- or corequisite: MUS V 2318 - V 2319.
3 points. M W 4:10-5:25

MUS V 3239x-3240y
Introduction to Composition

Composition in the shorter forms. Basic issues of musical structure and expression are explored in traditional and contemporary repertory. —D. Rakowski
Prerequisite: MUS V 1002 or the equivalent.
3 points. M 4:10-6:00, additional hour TBA.

MUS V 3241x-V 3242y
Advanced Composition

Composition in more extended forms. Survey of advanced techniques of contemporary composition. —Instructor TBA.
Prerequisite: MUS V 3240y and permission of the instructor. Corequisite: MUS V 2008.
3 points. Tu 11:00-12:50, additional hour TBA.

MUS V 3305x
Theories of Heinrich Schenker

An examination of Schenker's concepts of the relation between strict counterpoint and free writing; "prolongation"; the "composing-out" of harmonies; the parallels and distinctions between "foreground," "middleground," and "background"; and the interaction between composing-out and thematic processes to create "form." —J. Dubiel
This course fulfills the requirement of the 3000-level advanced theory elective. Prerequisite: MUS V 3322 or the equivalent.
3 points. Tu 1:10-3:00 and Th 1:10-2:00 *H*

MUS V 3302y
Introduction to Set Theory

Fulfills the requirement of the 3000-level advanced theory elective. Prerequisite: MUS V 3322 and permission of the instructor.
3 points. Not offered in 1995-96.

Asian Humanities-Music AHM V 3320y
Introduction to the Music of East Asia and Southeast Asia

A topical approach to concepts and practices of music in relation to other arts in the development of Asian civilizations. —D. Ferguson
3 points. Tu Th 6:10-8:00. One hour is a listening hour.

Asian Humanities-Music AHM V 3321x
Introduction to the Musics of India and West Asia

A topical approach to concepts and practices of music in relation to other arts in the development of Asian civilizations. —F. Rebollo-Sborgi
3 points. Tu Th 6:10-8:00. One hour is a listening hour.

MUS V 3330y
Advanced Counterpoint

The study of baroque counterpoint in the style of J.S. Bach; general aspects of voice-leading; dances, inventions, canons; expositions of fugues. —F. Lerdahl
Fulfills the requirements of the 3000-level advanced theory elective. Prerequisite: MUS V 2310, 2311 and 2312.
3 points. Tu Th 1:10-2:25

MUS W 3345y
Rhythm and Meter

Analysis of rhythm and meter in selected tonal compositions; applications to performance; study of recent theories of rhythm and meter by selected writers. —J. Kramer
Fulfills the requirements of the 3000-level advanced theory elective. Prerequisite: MUS V 3321.
3 points. Tu 9:00-10:50 and Th 10:00-10:50

MUS W 3379x
Twentieth-Century Music

Introduction to harmonic and contrapuntal techniques and structural principles of 20th-century music; analysis of selected 20th-century works. —J. Dubiel
Fulfills the requirements of the 3000-level advanced theory elective. Prerequisite: MUS V 3321.
3 points. M 11:00-12:50 and W 11:00-11:50

MUS W 3380y
Music since 1945

Detailed analysis of selected issues. Composers include Messiaen, Stravinsky, Boulez, Stockhausen, Babbitt, Carter, Penderecki, Cage, Reich, Glass, Rzewski, Rochberg, and others. —D. Rakowski
Fulfills the requirements of the 3000-level advanced theory elective. Prerequisite: MUS V 3379.
3 points. M 11:00-12:50 and W 11:00-11:50

MUS W 3470y
Issues in Rock Music and Rock Culture

Ethnomusicological approach to issues in rock and roll. Examines the significance of politics, gender, race, class, economics, media, censorship, creative processes, and group dynamics in rock culture. Students required to conduct a small-scale fieldwork project on an aspect of contemporary rock music culture in New York City. —D. Ferguson
Prerequisite: MUS V 2010 or instructor's permission.
3 points. M W 4:10-5:25 *III H*

MUS W 4104x
The Musical Universe of Palestrina, Lasso, and Victoria

A survey of the musical culture of the late Renaissance, especially as exemplified by the genres and styles of three of its most celebrated composers: Palestrina, Lasso, and Victoria. —L. Perkins
Prerequisite: MUS BC 1001 or instructor's permission.
3 points. Tu Th 4:10-5:25

MUS W 4410x
Music and Gender in Cross-Cultural Perspective

Evaluates the role played by musical performance in the expression of gender identity. Students will explore several case studies that represent urban, rural, classical, and popular music cultures from different geographical areas. —F. Rebollo-Sborgi
Prerequisite: MUS BC 1001, 1002, MUS HUM, and permission of instructor.
3 points. Tu Th 1:10-2:25 *I H*

PERFORMANCE ACTIVITIES AND INSTRUMENTAL INSTRUCTION

MUS V 1585x-V 1586y
University Jazz Orchestra

The University Jazz Orchestra performs classics and contemporary big band repertoire at a concert at the end of each term. —D. Sickler
Audition required. Those auditioning should apply to Box 12, Ferris Booth Hall (Telephone: 854-4966). May be taken for Pass/Fail credit only.
1 point. Hours TBA.

MUS V 1591x-V 1592y
University Orchestra and Chamber Music

An audition to be held during registration period, by appointment, at 703 Dodge Hall (x43825). Students should bring two short works, or movements of longer works, of different stylistic periods; they will also be asked to read brief orchestral or chamber music excerpts at sight. The orchestra performs throughout the academic year in works spanning all periods of music, including contemporary compositions. Distinguished guest soloists sometimes perform with the orchestra, and qualified student soloists may also have the opportunity to either perform or read concertos with the orchestra. Staff positions: a few persons interested in managerial work may gain experience as orchestra librarian and personnel manager.
Students who register for orchestra alone will receive four points for four semesters and will be

charged at the rate of one point each semester. Students who register for orchestra and chamber music will receive four points for two semesters, and will be charged at the rate of four points each semester. —G. Rothman and Staff
1 point. May be taken for Pass/Fail credit only.
M 6:00-8:30 and additional rehearsals in the three weeks preceding each public concert.

MUS V 1593x-V 1594y
Barnard-Columbia Chorus
Auditions by appointment made at the first class meeting. Students who register for chorus will receive a maximum of four points for four or more semesters, and will be charged at the rate of one point each semester. Open to all men and women in the University community. Several public concerts are given each season both on and off campus, often with other performing organizations. Sight-singing sessions offered. Repertory includes works from all periods of music literature. — G. Archer
Audition required. Pass/Fail credit only.
1 point. Tu Th 6:00-8:00

MUS V 1595x-V 1596y
Barnard-Columbia Chamber Singers
A small number of students in the Barnard-Columbia Chorus are chosen to rehearse and perform difficult music in several languages. —G. Archer
Audition required. Pass/Fail credit only.
1 point. Tu Th 8:00-9:30

MUS V 1598x-1599y
Chamber Ensemble and Chamber Orchestra
Students registering for chamber music receive ensemble training with the performance associates listed for MUS W 1525-W 1526. Student chamber ensembles perform a recital at the conclusion of each semester and are given other opportunities to perform throughout the academic year. —George Rothman and Staff
May be taken for Pass/Fail credit only.
1 point. Hours TBA.

Please note: In the instrumental lessons listed below all offered on a weekly, individual basis, a course of half-hour lessons earns 1 point of credit, and a course of one-hour lessons earns 2 points of credit.

MUS W 1500x-W 1501y
Early Instruments
Audition required. Those auditioning should apply to the Department of Music, 703 Dodge Hall (Telephone: x43825).
1 or 2 points. Hours TBA with instructor.
Sec. 1: Keyboards —K. Cooper
Sec. 2: Strings —L. Terry
Sec. 3: Wind Instruments —M. Newman

MUS W 1509x-W 1510y
Organ Instruction
—G. Stauffer
Permission of the instructor required.
1 or 2 points. Hours TBA with instructor.

MUS W 1513x-W 1514y
Introduction to Piano
Sec. 1: —N. Østbye *Sec. 2:* —M. Skelly
1 point. Hours TBA with instructor.

MUS W 1515x-W 1516y
Elementary Piano Instruction
Prerequisite: W 1513-1514 or the equivalent and permission of the instructor.
Sec. 1: —N. Østbye *Sec. 2:* —M. Skelly
1 or 2 points. Hours TBA with instructor.

MUS W 1517x-W 1518y
Keyboard Harmony and Musicianship
One half-hour private lesson weekly. Lessons emphasize the progressive development of a harmonic vocabulary representative of the techniques of the central tradition of 18th- and 19th-century music.
Sec. 1: —N. Østbye *Sec. 2:* —M. Skelly
1 point. Hours TBA with instructor.

MUS W 2515x-W 2516y
Intermediate Piano Instruction
Prerequisite: W 1515-1516 or the equivalent and permission of the instructor.
Sec. 1: —N. Østbye *Sec. 2:* —M. Skelly
1 or 2 points. Hours TBA with instructor.

MUS W 3515x-W 3516y
Advanced Piano Instruction
Prerequisite: W 2515-2516 or the equivalent and permission of the instructor.
Sec. 1: —N. Østbye *Sec. 2:* —M. Skelly
2 points. Hours TBA with instructor.

MUS W 1525x-W 1526y
Instrumental Instruction

See Columbia College Catalogue for section information. Students participating in the orchestra are given precedence when applying for private instrumental instruction.

Prerequisite: Audition (see under University Orchestra). 1 or 2 points. Hours TBA with instructor.

FLUTE: M. Kaufman, S. Palma; OBOE: M. Hill, M. Dine; CLARINET: A. Blustine, A. Kay; BASSOON: M. Newman; FRENCH HORN: W. Purvis; TRUMPET: C. Gekker; TROMBONE: R. Borror; TUBA: D. Braynard; DRUMS AND PERCUSSION: C. Heldrich, A. Korf; VIOLIN: A. Ajemian, M. Coid, L. Kaplan, S. Kim, L. Goldberg; VIOLA: S. Adams, M. Gallagher; VIOLONCELLO: E. Bartlett, C. Gummere, M. Shuman; STRING BASS: L. McKnight, TBA.

PAN-AFRICAN STUDIES

308 Milbank Hall 854-2055

This program is supervised by the Committee on Pan-African Studies:

Associate Professor of French: Kandioura Dramé (Henry R.Luce Associate Professor of Migration and Social Order and Director)

Assistant Professor of Anthropology: Lesley A. Sharp

Associate Professor of Economics: Cecilia Conrad

Assistant Professor of History: Lynette Jackson

Assistant Professor of Political Science: J. Phillip Thompson

Assistant Professor of Religion: Judith Weisenfeld

Lecturer in Political Science: Leslie J. Calman

Dean of the College: Dorothy S. Denburg

The Pan-African Studies major is designed to provide students with a comparative perspective in their approach to the study of the history, politics, and cultures of peoples of African origin in Africa and the African diaspora. The major is multi-disciplinary and differs from African Studies, Caribbean Studies and African-American Studies in that it encompasses the African influences in the experiences of peoples of African descent throughout the world.

REQUIREMENTS FOR THE MAJOR

I. Two semester sequence of introductory courses on African and African diaspora studies (preferably to be taken before the junior year).

AAS C 1001x	*Introduction to African-American Studies*
PAS BC 3001x	*African Literatures and Cultures*
PAS BC 3002y	*African Women Novelists*
PAS BC 3003	*Introduction to African-American History and Culture*
PAS BC 3100x	*Medicine and Power in African History*
PAS BC 3101y	*Black Nationalism in Africa and the African Diaspora*

One semester - Junior Colloquium in Pan-African Studies

PAS BC 3998x and PAS BC 3999y, Directed Research, a two-semester program of interdisciplinary research leading to the writing of the senior essay. In some cases, a senior seminar in one of the departments may be substituted for PAS 3998x or 3999y.

II. Each student must demonstrate proficiency in any of the languages of Africa or the Diaspora (in addition to English) by completing at least the fourth semester of that language, or its equivalent. Languages may include Swahili, Hausa, Arabic, French, Spanish, Dutch, and Portuguese.

III. Each student will select one of the following tracks:

A. The Regional Track

In consultation with the adviser, and to provide coherence, the student will take four courses (from among those designated by the Committee on Pan-African Studies) in one of the following geographic areas:

Africa
The Caribbean
Latin America
North America

B. The Divisional Track

In consultation with the adviser, and to provide coherence, the student will take four

courses (from among those designated by the Committee on Pan-African Studies) either in the social sciences or in the humanities.

IV. In addition, in consultation with the adviser, the student will take two electives (from among those courses designated by the Committee on Pan-African Studies). The total number of courses for the major is 11, exclusive of the foreign language.

NO MINOR IS OFFERED IN PAN-AFRICAN STUDIES

COURSES OF INSTRUCTION

PAS BC 3001x
African Literatures and Cultures
Survey of major issues in African literatures. Special references will be made to the oral tradition and its creative forms. Pan-Africanism, the "African Personality," and Négritude explored as fundamental ideologies of modern African literatures and scholarship. Documentary video presentations on aspects of African cultures relevant to the topics discussed. Readings include works by E.W. Blyden, L.S. Sanghor, K. Nkrumah, C. Achebe, D.T. Niane, W. Soyinka, Ngugi wa Thiong'o, Sembene Ousmane, A. Neto, M. Kunene, C. Laye. —K. Dramé
3 points. Tu Th 1:10-2:25 *II H*

PAS BC 3002y
African Women Novelists
An in-depth study of representative novels written in French and in English by African women. Major trends will be discussed in light of feminist post-colonial discourse and narrative innovations. Authors include Flora Nwapa, B. Emecheta, Ama Ata Aidoo, C. Bayala, W. Liking, M. Ba, A. Djebar, and B. Head. Critical readings include works by G. Spivak, F. Statton, and M. Ogundipe-Leslie. —K. Dramé
3 points. Tu Th 1:10-2:25 *II H*

PAS BC 3003y
Introduction to African-American History and Culture
An interdisciplinary approach to the field of African-American studies using work from history, religion, literature, film, music, and philosophy. The focus will be on classic scholarly studies which deal with the African-American experience and on some of the major cultural productions of the black community. —J. Weisenfeld
3 points. Not offered in 1995-96. *II H*

PAS BC 3100x
Medicine and Power in African History
Examines medical discourse and practice in Africa, emphasizing relationships between power and medical knowledge. Topics include: African therapeutic systems, African conjurers in the New World, medicine and imperialism, representing "the sick African," the professionalization of traditional healers, and the politics of AIDS in contemporary Africa. —L. Jackson
Prerequisite: Permission of the instructor. Limited to 15 students.
4 points. Th 2:10-4:00 *II S*

PAS BC 3101y
Black Nationalism in Africa and the African Diaspora
Examines construction of nations in Africa and the Diaspora through cultural productions, religion and politics; how gender, class, race, and sexuality have influenced the shape of black nationalisms; and the place of Africa in the Diaspora imagination. Topics include Ethiopianism, Pan Africanism, Negritude, Liberation and the Politics of Manhood, contemporary Afrocentricity. —L. Jackson
Prerequisite: Permission of the instructor. Limited to 15 students.
4 points. Th 2:10-4:00 *II S*

The following is only a sample selection of courses that may be applied to the major. Students should consult the departmental and program listings for course descriptions, prerequisites and other relevant courses.

ANT V 3009	Peoples and Cultures of North Africa and the Middle East
ANT V 3017	Caribbean Societies in the Global System
ANT V 3024	Africa and Modernity: A Changing Continent
EDU BC 2032	Contemporary Issues in Education
ENG BC 3140	Explorations of Black Literature, 1760-1890
ENG BC 3140	Writers of the Anglophone Caribbean

ENS BC 3144	Minority Women Writers in the United States
ECO BC 3029	The Economics of Underdeveloped Areas
ECO BC 2014	Topics in Economic History: Latin America and the Caribbean
ECO BC 2024	Women in International Development
FRE BC 3047	Topics in French and Francophone Cultures
HIS BC 1030	History of Southern Africa
HIS BC 1051	Survey of American Civilization to the Civil War
HIS W 3004	African-American History Since the Civil War
HIS BC 3056	The American Civil Rights Movement
HIS BC 3090	Women and Gender in Africa, 1500 to Present
HIS W 3648	History of the South
HIS BC 3489	The Fourteenth Amendment and Its Uses
HIS W 3643	Slavery and Slave Resistance in the Americas
HIS W 3916	Colonialism through African Eyes
HIS W 3660	Harlem: A Social and Cultural History, 1890-1965
HIS W 3881	Color, Class and Gender
MUS V 2016	Jazz
MUS W 3470	Issues in Rock Music and Rock Culture
POS W 3320	Contemporary Black Politics
POS W 3245	Race and Ethnicity in American Politics
PSY BC 2370	Psychological Analysis of Racism
PSY BC 3379	Psychology of Stereotyping and Prejudice
REL V 3755	African-American Religion
REL V 3780	Religion and Social Construction of Race
REL V 3803	Racial Politics of American Religion
REL V 3804	Black Women's Religious Experiences
WMS BC 3121	Black Women in America

PHILOSOPHY

326 Milbank Hall 854-4689

Professors: Alan Gabbey (Chair), Sue Howard Larson

Assistant Professors: Taylor Carman, Noa Latham, Robert Myers[3], Claudine Verheggen (Visiting)

Adjunct Associate Professor: Jeffrey Blustein

Lecturer: John Lad

Other officers of the University offering courses in Philosophy:

Professors: Bernard Berofsky[2], Haim Gaifman, Lydia Goehr, Richard F. Kuhns, Jr., Charles Larmore[3], Isaac Levi, Thomas Pogge[2], David Sidorsky

Associate Professors: David Albert, Akeel Bilgrami

Assistant Professors: John Collins, Bonnie Kent[1], Wolfgang Mann, Christia Mercer, Achille Varzi

Adjunct Assistant Professors: Michael Kelly, Cheryl Mendelsohn

[1]Absent on leave Autumn term

[2]Absent on leave Spring term

[3]Absent on leave 1995-96

The department offers a wide range of courses designed to acquaint the student with traditional and contemporary work in ethics, metaphysics, theory of meaning, aesthetics, theory of knowledge, philosophy of science, logic, and the history of philosophy. The courses are designed to facilitate student participation and each class is conceived as a workshop. The student is expected to develop a competence in techniques of conceptual analysis, argument, and the interpretation of texts.

Although it is not required for the major, students who have not had previous training in philosophy are advised to take either Philosophy BC 1001, *Introduction to Philosophy: Problems and Concepts*, or Philosophy BC 1002, *Introduction to Philosophy: Styles and Systems*. (Credit for the major will not be given for both courses.)

REQUIREMENTS FOR THE MAJOR

I. A major in Philosophy consists of at least 10 courses, as follows:

1. One course on ancient or early medieval philosophy:
   PHI V 1101 *The History of Philosophy I: Pre-Socratics through Augustine*
   PHI V 3121 *Plato*
   PHI V 3131 *Aristotle*
2. One course on medieval or early modern philosophy:
   PHI V 1201 *The History of Philosophy II: Aquinas through Kant*
   PHI V 3230 *Seventeenth-Century Philosophy: Bacon to Locke*
   PHI V 3250 *Eighteenth-Century Philosophy: Locke to Kant*
3. One course in logic: PHI V 3411 *Introduction to Symbolic Logic*
4. One course in moral philosophy: PHI V 3701 *Moral Philosophy*
5. One of the following courses:
   PHI BC 3483 *Theory of Meaning*
   PHI BC 3501 *Theory of Knowledge*
   PHI V 3601 *Metaphysics*
6. One semester of Majors' Seminar: BC 3288x
7. Senior Research Seminar: BC 3290y

8-10. Three electives.

The sequence of courses for the major is to be determined in consultation with the major adviser. The Majors' Seminar (PHI BC 3288x) may be taken in either the senior or the junior year. The topic for the seminar is set each semester on the basis of consultation between the instructor and the students. No topic of the Majors' Seminar may be taken more than once, but with departmental permission the Major's Seminar can also be taken (on a different topic) as an elective for the major.

Senior Essay

All students majoring in Philosophy are required to submit a substantial essay on a topic approved by the department. The essay is to be researched and written as the work for the Senior Research Seminar (BC 3290y).

Students who wish to complete a double or joint major including philosophy should consult the Department Chair as early in their planning as possible.

REQUIREMENTS FOR THE MINOR

Five courses constitute a minor in philosophy. Courses are to be selected on the basis of consultation with the adviser.

Limited Enrollment Courses

First-day attendance required. Instructor will determine and post class list. Prerequisites: one philosophy course or permission of the instructor, unless otherwise specified.

COURSES OF INSTRUCTION

PHI BC 1001x, y
Introduction to Philosophy: Problems and Concepts

Interpretation and analysis of major topics in ethics, metaphysics, and theory of knowledge. Readings from historical and contemporary sources, primarily within the Western tradition. —Staff

Limited enrollment. No prerequisites.
3 points. *III H*

x: Sec. 1 M W 11:00-12:15 —C. Verheggen
Sec. 2 Tu Th 10:35-11:50 —A. Gabbey
Sec. 3 M W 1:10-2:25 —C. Verheggen
y: Sec. 1 M W 11:00-12:15 —N. Latham
Sec. 2 M W 1:10-2:25 —N. Latham
Sec. 3 Tu Th 1:10-2:25 —T. Carman

PHI BC 1002x, y
Introduction to Philosophy: Styles and Systems

Examination of different conceptions of philosophy, its questions, and its methods, as they arise in different historical and cultural contexts, both Western and non-Western. —J. Lad.

Limited enrollment. No prerequisites.
3 points. x: Tu Th 1:10-2:25
y: Tu Th 10:35-11:50 *I H*

PHI V 1101x
The History of Philosophy: I

Exposition and analysis of the positions of the major philosophers from the pre-Socratics through Augustine. —W. Mann

3 points. M W 2:40-3:55 *III H*

PHI V 1201y
The History of Philosophy: II

Exposition and analysis of the positions of the major philosophers from Aquinas through Kant. —C. Mercer

3 points. Tu Th 10:35-11:50 *III H*

PHI BC 3147y
Philosophical Issues of Feminist Theory

Philosophical study of some recent feminist texts together with the appropriate philosophical texts. —S. Larson

3 points. M W 11:00-12:15 *I H*

PHI V 3230x
Seventeenth-Century Philosophy

Selected doctrines and issues attending "the Birth of Modern Philosophy." Skepticism; empiricism and rationalism; faith and reason; perception; metaphysics; methodology; spirit and matter; moral and civic philosophy; philosophy and science. Principal thinkers are normally selected from Bacon, Hobbes, Gassendi, Descartes, Pascal, Spinoza, Leibniz, Malebranche, the Cambridge Platonists, Anne Conway, and Locke. —A. Gabbey

Prerequisite: One philosophy course or permission of the instructor.
3 points. Tu Th 1:10-2:25 *III H*

PHI V 3232x
Renaissance Philosophy
Prerequisite: One philosophy course or permission of the instructor.
3 points. Not offered in 1995-96. *III H*

PHI V 3250y
Eighteenth-Century Philosophy
Selected doctrines and issues in "The Age of Reason." Ideas and perception; reason and the passions; knowledge and belief; spirit and matter; deism and atheism; philosophy and science; rationalism and empiricism. Principal thinkers are normally selected from Locke, Bayle, Leibniz, Newton, Berkeley, Hutcheson, Hume, Reid, the French and German Enlightenments, and Kant. —A. Gabbey
Prerequisite: One philosophy course or permission of the instructor.
3 points. M W 11:00-12:15 *III H*

PHI V 3270x
Nineteenth-Century Philosophy: Hegel to Nietzsche
A survey of German idealism and its critics. Topics include the nature of self-consciousness, the idea of progress in history, and the character of modern ethical and religious life. Principal thinkers are normally selected from Fichte, Hegel, Schopenhauer, Marx, Kierkegaard, and Nietzsche. —T. Carman
Prerequisite: One philosophy course or permission of the instructor.
3 points. Tu Th 10:35-11:50 *III H*

PHI V 3301y
Twentieth-Century Philosophy
Four major philosophical movements — pragmatism, logical positivism, existentialism, and linguistic analysis — are examined in their cultural context. Discussion of the works of the more recent postmodernist philosophers as critics of these movements. Readings selected from James, Bergson, Moore, Russell, Carnap, Wittgenstein, Austin, Husserl, Heidegger, Sartre, Foucault, Derrida, and Deleuze. —D. Sidorsky
Prerequisite: One philosophy course or permission of the instructor.
3 points. M W 2:40-3:55 *III H*

PHI V 3351y
Phenomenology and Existentialism
An introduction to phenomenology and existentialism through an analysis and discussion of the works of Husserl, Heidegger, Sartre, and Merleau-Ponty. Issues addressed include the nature of intentionality and its relation to consciousness and social practice, the temporal structure of human existence, authenticity and inauthenticity, atheism, humanism, bad faith, perception, and embodiment. —T. Carman
Prerequisite: One philosophy course or permission of the instructor.
3 points. Tu Th 10:35-11:50 *III H*

PHI V 3352y
Recent European Philosophy
3 points. Not offered in 1995-96. *III H*

PHI BC 3364x
Wittgenstein
Wittgenstein's views in relation to Frege and Russell. Discussion of the central problems in his books, e.g., logical form, truth, rule-following, privacy, certainty, and psychological concepts. —S. Larson
3 points. Tu Th 1:10-2:25 *III H*

PHI V 3411x
Introduction to Symbolic Logic
Sentential and first-order logic; the significance of a formal system and its use for analysis of meaning and language. Technical exercises are combined with analysis and parsing of English texts. There will be a weekly required discussion section in addition to lectures. —H. Gaifman
4 points. M W 11:00-12:15 *H*

PHI BC 3483y
Theory of Meaning
Considerations of questions about the nature of language and truth, with attention to the role of the concept of truth in constructing theories of meaning for natural languages. Readings from Frege, Austin, Davidson, and others. —S. Larson
Prerequisite: One philosophy course or permission of the instructor.
3 points. M W 2:40-3:55 *III H*

PHI BC 3501y
Theory of Knowledge
Contemporary issues in the theory of knowledge and their historical sources. —S. Larson
Prerequisite: One philosophy course or permission of the instructor.
3 points. Tu Th 1:10-2:25 *III H*

PHI W 3551y
Philosophy of Science
3 points. Not offered in 1995-96. *H*

PHI V 3576y
Physics and Philosophy
Philosophical problems at the foundations of quantum theory, especially those having to do with the uncertainty relations and the nature of

quantum-mechanical indeterminacy. Exploration of a variety of philosophical approaches, including the many-worlds interpretation and hidden-variable theory. —D. Albert
3 points. Tu Th 2:40-3:55 *H*

PHI V 3601x
Metaphysics
Systematic treatment of some major metaphysical topics, e.g., necessity, causality, particulars and universals, personal identity; readings from classical and contemporary authors. —B. Berofsky
3 points. M W 2:40-3:55 *III H*

PHI BC 3651x
Philosophy of Mind
Examination of the place of mind in the physical world. The relation of mental states to behavior and neurophysiology; problems concerning consciousness and subjectivity. —S. Larson
3 points. M W 1:10-2:25 *III H*

PHI V 3690y
Action, Emotion and Rationality
An examination of the roles of value and rationality in emotion and action, with emphasis on the topics of free will, self-deception, wishful thinking, weakness of will, and such emotions as anger, pride, shame, and guilt. Readings will be drawn from Plato, Aristotle, Hume, Freud, Sartre, Davidson, and other contemporary authors. —C. Verheggen
Prerequisite: One philosophy course or permission of the instructor.
3 points. M W 1:10-2:25 *III H*

PHI V 3701x, y
Moral Philosophy
Introduction to the central problems of moral philosophy: alternative moral ideals and their philosophical formulations; the status and justification of moral judgments; reasons for action; individual rights and social justice.
—x: D. Sidorsky, y: B. Kent
Prerequisite: One philosophy course or permission of the instructor.
3 points. x: Tu Th 2:40-3:55
y: Tu Th 11:00-12:15 *III H*

PHI V 3716y
Topics in Moral Philosophy
3 points. Not offered in 1995-96. *III H*

PHI V 3720y
Ethics and Medicine
Philosophical examination of moral issues in medical theory and practice. Analysis of the ethics of the doctor-patient relationship, e.g., informed consent, truth-telling, paternalism; topics in bioethics, e.g., abortion, euthanasia, experimentation on humans; justice and access to health care; human genetics. —J. Blustein
Limited enrollment by permission of the instructor. First-day attendance required.
3 points. Tu 2:30-5:30 *H*

PHI V 3758y
Philosophy of Education
Drawing on classical and contemporary sources, discussion will focus on the conditions necessary to produce free and responsible citizens of a just and democratic society. Readings from Plato, Rousseau, Dewey, and others. —Instructor TBA.
No prerequisites.
3 points. Tu Th 1:10-2:25 *III H*

PHI V 3786y
Free Will and Responsibility
3 points. Not offered in 1995-96. *III H*

PHI V 3801y
Aesthetics
Open to students in philosophy, the various literary disciplines, and art history. Expression theories of art (Hegel, Nietzsche, Croce, Freud); the meaning of "modern" (Kant and Heidegger); imitation theories of art (Plato and Aristotle). Contemporary theories of criticism. —Instructor TBA.
Limited to 35 students.
3 points. Hours TBA. *III H*

PHI V 3881x
The Idea of God
Arguments for and against belief in a separate God, the relevance of rationality to theistic belief, the attributes of God, religious experience, the relation of religion to morality. Focus is primarily on the Judeo-Christian tradition. Readings drawn from classical and contemporary sources. —N. Latham
Prerequisite: One philosophy course or permission of the instructor.
3 points. Tu Th 2:40-3:55 *III H*

PHI BC 3288x
Majors' Seminar
An intensive study of a selected author, issue, text, or series of texts. —T. Carman
4 points. W 4:00-6:00

PHI BC 3290y
Senior Research Seminar
Discussion and conferences on the preparation of the Senior Essay, a substantial project on a topic agreed between each individual student and the department and prepared under the direction of

the instructor. —N. Latham
4 points. Times TBA by agreement between the instructor and the students. *H*

PHI BC 3398x, y
Independent Study
Open to students who wish to pursue a project on an individual basis. The study consists in a combination of readings and papers over one semester under the direction of an appropriate instructor. The project and enrollment for the course are both subject to departmental approval.
1-3 points. *H*

ESP BC 3025y
Ethics and the Environment
Philosophical examination of the relationship between humanity and nature with a focus on the moral justifications for environmental policies. Topics include the utility of the natural environment, responsibilities to future generations, and the moral consideration of nature. Readings from several disciplines: philosophy, ecology, economics, political theory. —Instructor TBA.
No prerequisites.
3 points. Hours TBA. *H*

PHI W 3278y
Nietzsche
Reading and analysis of *The Birth of Tragedy, Genealogy of Morals,* the fragments collected under the title *The Will to Power*, and other works, with some attention to the background of the early works of Schopenhauer. —M. Kelly
3 points. Tu Th 4:10-5:25 *H*

COURSES OFFERED AT REID HALL IN PARIS

The following course is offered at Reid Hall in Paris. For additional information about the programs available, consult the Reid Hall Programs Bulletin available in 412 Lewisohn Hall.

Philosophy H 3550x, y
Aspects of Contemporary French Thought
An overview of recent developments in French Philosophy through analysis of contemporary positions; a critical examination of the main trends of present-day thought, including some necessary background material (Descartes, Spinoza, Nietzsche). Readings include texts by Freud, Sartre, Foucault, Deleuze, Derrida, Barthes, de Beauvoir, Conche, Debord, and Lacan. —L. Laveggi
Recommended preparation: an introductory course in philosophy.
3 points. *III H*

PHYSICAL EDUCATION

209 Barnard Hall 854-2085

Senior Associates: Sharon Everson (Chair)

Lecturer: Molly Wynne

Associates: Kristina Dhondt, Priscilla Gilmore, Wendy Marks, Laura Masone

DEGREE REQUIREMENT

Students admitted as first-year students must complete two semesters of Physical Education at Barnard. One semester must be passed in the first year and the requirement must be completed by the end of the sophomore year. Sophomore and junior transfers are required to complete one semester of Physical Education at Barnard. Transfers are expected to complete their requirement by the end of the junior year. Failure to complete the requirement by the specified deadlines will result in a failing grade. Physical Education courses are graded pass/fail based on attendance and participation.

Health Status: Students with permanent or temporary disabilities will be individually advised and placed in a suitable activity, based upon the recommendations of the Director of Health Services.

Curriculum: The curriculum is organized and administered by the faculty of the Department of Physical Education. Instruction is offered in the areas of sports, aquatics, fitness, aerobics, and other specialized courses. Courses are designed to promote the development and enjoyment of lifetime motor skills which will afford opportunities to realize one's potential and to provide vigorous exercise to release tensions often generated by strong academic commitments and intense urban life.

Intramurals: The Physical Education Department offers an extensive intramural program which features basketball, indoor soccer, and volleyball. The program emphasizes participation in a friendly, competitive atmosphere; activities are open to all members of the college community. For more information, contact the Director of Intramurals, 206 Barnard Hall, or call 854-6940.

Recreation: Recreational use of the gymnasium, swimming pool, track, and weight room is available at specified times. All students, faculty, and staff are encouraged to use the facilities.

Intercollegiate Athletics: The Barnard/Columbia Athletic Consortium provides the opportunity for eligible undergraduate women to compete together as members of University-wide athletic teams. Eleven varsity sports are currently sponsored: Archery, Basketball, Crew, Cross Country, Fencing, Soccer, Swimming & Diving, Tennis, Indoor and Outdoor Track & Field, and Volleyball. Governed by NCAA and Ivy League rules, all teams are Division I. Competition is scheduled with teams from the Ivy League, the metropolitan area, and the eastern region. In addition, students are eligible to qualify for state, regional, and national championships. Physical Education credit may be earned through satisfactory participation on a varsity team.

For more information, contact Merry Ormsby, Associate Director of Athletics, Columbia-Dodge Fitness Center, 854-8373, or check for information in the Physical Education Department in Room 209, Barnard Hall.

Registration: Registration takes place at the beginning of each semester. Information is available in the north lobby of Barnard Hall as well as in the Physical Education office. After confirming registration with the Physical Education Department, students should include the Physical Education course by number, section, title, and I.D. number on final programs filed with the Registrar.

Cross Registration: An agreement between the Department of Physical Education of Barnard College and Columbia College permits limited enrollment of Barnard students in

selected Columbia courses. Barnard students must successfully complete one Physical Education course at Barnard before they may elect a Columbia Physical Education course. Columbia College and Engineering School students may register for designated Barnard courses during Barnard's registration period. Other Columbia University students must receive permission from the Physical Education Department to register before filing their final programs with the Registrar. Registration is not open to graduate students.

Courses: Classes are organized in homogeneous skill groups for optimal learning. Students are advised to register according to their own skill level: Beginning or Advanced Beginning.

COURSES OF INSTRUCTION

PED BC 1101x, y
Lifetime Wellness
Introduction to the fundamental principles of wellness and physical activity, including physical fitness, health, and wellness assessments. Topics include practical concerns for self-management within an active lifestyle and disease prevention.

AQUATIC COURSES

PED BC 1120x, y
Beginning Swimming
Development of confidence and safety skills in the water. Introduction of front crawl, elementary backstroke, and deep water skills. No previous experience required. *Women only.*

PED BC 1121x, y
Advanced Beginning Swimming
Review of safety skills, front crawl, and elementary backstroke. Further development of deep water skills. Introduction of breaststroke.

PED BC 3125x, y
Lap Swim
Students determine an individual training program with the instructor on a contract basis.
Completion of one physical education course required. Swimming fitness test for class admission given prior to first class meeting.

PED BC 3129y
Water Safety Instructor Course
Review of swimming skills and instruction in teaching techniques for preschool through swimmer courses and elementary forms of rescue; leads to American Red Cross certification.
Successful completion of PED BC3131x or equivalent American Red Cross certification. Swimming test for class admission given during first class meeting.

PED BC 3131x
Lifeguard Training and First Aid
Pool management, preventive lifeguarding, swimming and equipment rescues; leads to two American Red Cross certifications.
Swimming test for class admission given prior to first class meeting.

PED BC 3132y
Lifeguard Training Instructor
Review of lifeguard training skills and instruction in teaching techniques; leads to American Red Cross certification.
Current CPR, First Aid, and Lifeguard Training certificates required.

SPORTS COURSES

PED BC 1350x, y
Archery
Techniques of shooting target archery. Individualized instruction for all levels; selection and care of equipment; safety; intraclass tournaments and novelty shoots.

PED BC 3898x, y
Varsity Team Archery
Practice and intercollegiate competition in Indoor Target Archery.
Permission of coach required. For other varsity teams. See Columbia course offerings.

PED BC 1353x, y
Badminton
Strokes, strategies, singles and doubles play. Intraclass tournaments provide competition for all levels.

PED BC 1357x, y
Beginning Bowling
Basic techniques of spot bowling and spare conversion; scoring and game play.

PED BC 1360x, y
Beginning Fencing
Basic offensive and defensive foil techniques; footwork, rules, officiating, and bouting.

PED BC 1362x, y
Golf
Introduction to the game of golf through a variety of indoor drills to develop all facets of the game; includes proper club selection, effective swing techniques; and the "long and short" game.

PED BC 1364x, y
Beginning Tennis
Fundamentals of forehand, backhand, and serve. Introduction to rules, scoring, and etiquette.

PED BC 1365x, y
Advanced Beginning Tennis
Refinement of forehand, backhand, and serve. Further instruction in scoring, rules, tactics, and etiquette. Introduction of the volley and doubles play.
Completion of Beginning Tennis or permission of the instructor is required.

PED BC 1470x, y
Volleyball
Introduction of forearm pass, overhead pass, serve and spike, and basic offensive and defensive strategies of power volleyball.

FITNESS COURSES

PED BC 1580x, y
Body Sculpting
Introduction to strength and endurance exercises to develop muscle definition for the upper and lower body. Emphasis on correct body placement. Stretching exercises included.

PED BC 1582x, y
Aerobics
Combination low/moderate impact cardio-vascular exercise performed to a variety of music. Muscle toning exercises also included.

PED BC 1359x, y
Self-Paced Cycling
Individualized program of aerobic exercise utilizing stationary cycles performed on a contract basis.
Completion of one physical education course required. Cycling test for class admission given prior to first class meeting.

PED BC 1583x, y
Beginning Fitness
Introduction to a variety of conditioning programs; improvement of flexibility, strength, and cardiovascular efficiency.

PED BC 1584y
Advanced Beginning Fitness
Continuation of beginning fitness; designed for the individual at a medium level of fitness.

PED BC 1585x, y
Beginning Weight Training
Introduction to principles of weight training; use of the Universal Weight Machine and free weights. Programs tailored to individual needs with an emphasis on lifetime fitness.

PED BC 1586y
Advanced Beginning Weight Training
Continuation of beginning weight training; emphasis on free weights and individualized training.
Completion of Beginning Weight Training or permission of the instructor required.

SPECIAL COURSES

PED BC 1690x, y
Beginning Self-Defense
Development of confidence, using basic defensive and offensive moves, so that a person can handle a threatening situation effectively and with minimal confrontation.

PED BC 1693x, y
Beginning Yoga
Basic Hatha yoga positions; body awareness; relaxation; breathing exercises.

PED BC 2799x, y
Independent Study
Enrollment in a course of instruction.
Not open to first-year or transfer students. Approval of department required. Limited to one semester of credit.

DANCE

See Dance Department (page 117) for course listings. Studio dance courses may be taken to fulfill the Physical Education requirement. Dance courses taken to fulfill the Physical Education requirement do not carry academic credit.

Courses offered are:

Ballet:	Beginning, Low Intermediate, Intermediate, Advanced.
Jazz:	Low Intermediate, Intermediate.
Modern:	Beginning, Low Intermediate, Intermediate.
Tap:	Beginning, Intermediate.

PHYSICS AND ASTRONOMY

404 Altschul Hall 854-7303

Professor: Richard Friedberg[1] (Chair)

Associate Professor: Timothy Halpin-Healy (Acting Chair, Autumn)

Assistant Professors: Laura Kay, Sally Koutsoliotas

Other officers of the University offering courses listed below:

Professors: David Helfand, Wonyong Lee, Mal Ruderman, Melvin Schwartz, Frank Sciulli, Jacob Shaham, Ed Spiegel

Associate Professors: James Applegate, Elena Aprile, Joseph Patterson, William Zajc

Assistant Professors: Arlin Crotts, Philip Kaaret, Ki Myon Lee, Michael Rich, Steven Ritz, Peter Rowson

[1]Absent on leave Autumn term.

From Aristotle's *Physics* to Newton's *Principia*, the term "physics," taken literally from the Greek φυσις = Nature, implied natural science in its very broadest sense. Physicists were, in essence, natural philosophers, seeking knowledge of the observable phenomenal world. Astronomy, a sibling science to physics, concentrated specifically on the study of natural phenomena in the heavens with the intent to understand the constitution, relative positions, and motions of the celestial bodies in our universe. Though practitioners of these disciplines have become somewhat more specialized in the past century, the spirit that guides them in their research remains the same as it was more than two millennia ago.

In cooperation with the faculty of the University, Barnard offers a thorough preprofessional curriculum in both physics and astronomy. The faculty represents a wide range of expertise, with special strength and distinction in theoretical physics, condensed matter physics, nuclear physics, and observational astronomy.

Separate majors in physics and astronomy are offered. Furthermore, there are many special interdisciplinary majors possible, such as biophysics, chemical physics, engineering physics, and mathematical physics. There is a physics minor as well. Students should consult members of the department early on in their undergraduate careers in order to plan the most effective course of study.

A major examination is required for both astronomy and physics; there is no senior essay required for either. Qualified seniors are invited to participate in the seniors honors program, in which they carry out a year-long research project leading to the thesis.

The department offers several quite distinct introductory sequences in physics, only one of which may be taken for credit, including:

1. PHY C 1001-2, *General Physics*, is a two-semester introduction to physics intended for liberal arts students, taught on the Columbia campus. It satisfies the Barnard Lab Science requirement if taken concurrently with the laboratory PHY BC 1091-2 given at Barnard. It does not fulfill the premedical requirement or the physics requirement for any major.
2. PHY V 1201-2 *General Physics* (formerly V 1003-4) is satisfactory preparation for medical school and is appropriate for most non-science major pre-medical students. This course, devoted to algebra-based physics, is taught at Columbia in a large lecture hall setting. It is not recommended as a foundation for more advanced work in the field. PHY V 1301-2 (formerly V 1103-4) is similar but uses calculus.
3. PHY BC 1206-8, *Physics I, II, III*, is Barnard's own three-semester, calculus-based introductory sequence in physics. Characterized by modest class sizes, the sequence is designed specifically for Barnard women with a serious interest in any of the natural sciences or mathematics. This sequence satisfies the physics requirements for students majoring in a science other than physics. It is especially appropriate for majors in chemistry or biochemistry, whether premedical or not. Biology majors with some calculus

background are also encouraged to take this sequence. Finally, Barnard women contemplating a major in physics or astronomy should take PHY BC 1206-7 in their first year, if possible, or in their second at the latest, to be followed by the third-semester course, *Waves and Optics*. (Consult members of the department for up-to-date numbering of this course.)

4. First-year students with exceptional aptitude for physics (as evidenced, for example, by scores of 4 or 5 on the advanced placement C exam) and a good mathematical background may be admitted into the Columbia-taught two-semester sequence, PHY C 1801-02, *General Physics* (formerly 1021-22), which replaces all three terms of the sequence for majors. Students inclined toward this sequence are strongly encouraged to consult a Barnard faculty member at the start of the term.

Students unsure about the most appropriate sequence should consult members of the department.

The following courses may be substituted for each other:

PHY BC 1206, and C 1601 with W 1691
PHY BC 1207, and C 1602 with W 1692
PHY BC 1208, and C 1603 with W 1693
AST V 1753-4 and C 1403-4

There is a laboratory fee of $25 for each 1000-level physics course with a laboratory.

REQUIREMENTS FOR THE ASTRONOMY MAJOR

The courses required for the major in astronomy are:

PHY BC 1206	*Physics I: Mechanics*
PHY BC 1207	*Physics II: Electricity & Magnetism*
PHY BC 1208	*Physics III: Waves and Optics*

Students may substitute a Columbia College three-semester calculus-based introductory physics sequence with lab, as in the physics major.

Calculus through IIIS/IVA is required, with additional work in mathematics recommended.

Also:

AST C 1203, 1204 *Introduction to Astrophysics I, II*

Students who have taken AST V 1753-4 (*Introduction to Astronomy I, II*) or C 1403-4 may substitute an additional 3000-level AST course for AST C 1203-4.

Finally, students are required to take four 3000-level AST or PHY courses, including at least one of AST C 3102 or PHY W 3003 *Mechanics*, and selected so that at least six total points of 3000-level lecture classes are AST courses. Some of the AST courses offered in recent years include:

AST C 3101	*Stellar Structure and Evolution*
AST C 3102	*Planetary Dynamics and Physics of the Solar System*
AST C 3103	*Galaxies and the Interstellar Medium*
AST C 3104	*Cosmology*
AST C 3302	*General Relativity, Cosmology, and Black Holes*
AST C 3461	*Order and Disorder*
AST C 3646	*Observational Astronomy*

Students planning to study astronomy or astrophysics in graduate school are strongly urged to take PHY W 3003, 3007-8, 3021-22, some additional courses in mathematics, and Computer Science W 1005 *Fortran Programming. Note: When any of the required courses is not being given, the Department will recommend appropriate substitutions.*

REQUIREMENTS FOR THE PHYSICS MAJOR

The courses required for the major in physics are:

PHY BC 1206	*Physics I: Mechanics*
PHY BC 1207	*Physics II: Electricity & Magnetism*
PHY BC 1208	*Physics III: Waves and Optics*

In lieu of the above, any three-semester Columbia introductory sequence acceptable for the physics major in Columbia College will do (e.g., PHY C 1601-3 taken with PHY W 1691-3). The accelerated two-semester Columbia College sequence PHY C 1801-2 is also acceptable.

Calculus through IIIS/IVA is required, with additional work in mathematics recommended. Ideally, this preliminary coursework would be completed by the end of the sophomore year.

At the upper level:

PHY W 3003	*Mechanics*
PHY W 3021	*Quantum Physics*
PHY W 3022	*Statistical Physics*
PHY W 3007	*Electricity and Magnetism*
PHY W 3008	*Electromagnetic Waves and Optics*

are required, as are 4.5 points total of advanced lab work via PHY W 3082/W 3081. Finally, the student must take Computer Science W 1005 *Fortran Programming* or PHY W 3083 *Electronics Laboratory*.

Students planning to study physics in graduate school should try to include PHY G 4003 *Lagrangian Mechanics* and PHY G 4021 *Quantum Mechanics* in their senior year program. *Note: When any of the required courses is not being given, the Department will recommend appropriate substitutions.*

INTERDISCIPLINARY MAJORS

Special majors in, for example, biophysics, chemical physics, engineering physics, or mathematical physics are all possible and are arranged in conjunction with the relevant second department at Barnard. A student interested in such possibilities should speak to a faculty member early on (i.e., by late fall of her sophomore year) in order to permit the most effective construction of her program of study and the appropriate petition to be made to the Committee on Programs and Academic Standing. The latter is a straightforward procedure associated with the declaration of all special majors at Barnard.

REQUIREMENTS FOR THE PHYSICS MINOR

Five courses are required for the minor in physics. They are: any three-semester introductory sequence acceptable for the major (see above); and two 3-point courses at the 3000-level. See note at end of "Requirements for the Physics Major."

COURSES OF INSTRUCTION

ASTRONOMY COURSES

AST V 1403x
Earth, Moon, and Planets (lecture)

The overall architecture of the solar system. Motions of the celestial sphere. Time and the calendar. Life in the solar system and beyond. —Instructor TBA.

Open to any student offering astronomy in partial fulfillment of the science requirement. Recommended preparation: a working knowledge of high school algebra.
3 points. Tu Th 1:10-2:25

AST V 1404y
Beyond the Solar System

Distances to, and fundamental properties of, nearby stars; nucleosynthesis and stellar evolution; novas and supernovas; galaxies; the structure of the universe and theories concerning its origin, evolution, and ultimate fate.
—Instructor TBA.

Open to any student offering astronomy in partial fulfillment of the science requirement. Recommended prepa-

ration: a working knowledge of high school algebra.
3 points. Tu Th 1:10-2:25

AST V 1420x
Galaxies and Cosmology

The content, structure, and possible evolution of galaxies. The "21-centimeter line": the song of interstellar hydrogen. Distribution of mass, seen and unseen, in galaxies and clusters of galaxies. Distribution of clusters over the sky. Quasars and the nuclei of galaxies. The origin of the universe, and the present controversy over its eventual fate. —E. Spiegel
Prerequisite: Working knowledge of high school algebra.
3 points. M W 1:10-2:25

AST V 1753x
Introduction to Astronomy I

An introduction to astronomy, taught at Barnard, intended primarily for non-science majors. Includes the history of astronomy, the apparent motions of the moon, sun, stars, and planets, gravitation and planetary orbits, the physics of the Earth and its atmosphere, and the exploration of the solar system. —J. Patterson
Recommended preparation: A working knowledge of high school algebra. Suggested parallel laboratory course: AST C 1903x.
3 points. M W 1:10-2:25

AST V 1754y
Introduction to Astronomy II

The properties of stars, star formation, stellar evolution and nucleosynthesis, the Milky Way and other galaxies, and the cosmological origin and evolution of the universe. —J. Patterson
Recommended preparation: A working knowledge of high school algebra. Suggested parallel laboratory course: AST C 1904y.
3 points. M W 1:10-2:25

AST C 1836y
Stars and Atoms

A study of the life cycle of stars, from their birth in cold gas clouds to their final death throes in supernova explosions. The turn-of-the-century revolution in physics: X-rays, radioactivity, the nuclear atom, and the quantum theory. Energy production by nuclear fission and fusion and its consequences. —M. Rich
Recommended preparation: A working knowledge of high school algebra.
3 points. Tu Th 2:40-3:55

AST C 1903x
Earth, Moon, and Planets Laboratory

This laboratory is for the lecture courses AST V 1753x or AST C 1403x. The lecture course must be taken concurrently. —L. Kay and Staff
Corequisite: AST V 1753x or AST C 1403x.
1 point. Hours TBA.

AST C 1904y
Stars, Galaxies and Cosmology Laboratory

This laboratory is for the lecture courses AST V 1754y or AST C 1404y. The lecture course must be taken concurrently. —A. Crotts and Staff
Corequisite: AST V 1754y or AST C 1404y.
1 point. Hours TBA.

AST C 1203x
Introduction to Astrophysics I

The first term of a two-term calculus-based introduction to astronomy and astrophysics. Topics include the physics of stellar interiors, stellar atmospheres and spectral classifications, stellar energy generation and nucleosynthesis, supernovas, neutron stars, white dwarfs, interacting binary stars. —J. Applegate
Prerequisite: A working knowledge of calculus.
3 points. Tu Th 2:40-3:55

AST C 1204y
Introduction to Astrophysics II

Continuation of AST C 1203x. Topics include the structure of our galaxy, the interstellar medium, star clusters, properties of external galaxies, clusters of galaxies, active galactic nuclei, cosmology. —A. Crotts
3 points. Tu Th 2:40-3:55

AST C 3101
Stellar Structure and Evolution

Prerequisite: A working knowledge of calculus and university-level introductory physics.
3 points. Not offered in 1995-96.

AST C 3102
Planetary Dynamics and Physics of the Solar System

Prerequisite: a working knowledge of calculus and university-level introductory physics.
3 points. Not offered in 1995-96.

AST C 3103x
Galaxies and the Interstellar Medium

Topics include gaseous nebulae, ionization zones, molecular clouds, dust, interstellar chemistry, supernova remnants, stellar populations, stellar kinematics, galatic rotation, 21-cm. surveys, spiral structure, external galaxies, star formation, active galaxies. —M. Rich
Prerequisite: A working knowledge of calculus and university-level physics.
3 points. M W 1:10-2:25

AST C 3104y
Cosmology
Prerequisite: A working knowledge of calculus and university-level introductory physics.
3 points. Not offered in 1995-96.

AST C 3302x
General Relativity, Cosmology, and Black Holes
Special relativity and its role in physics. The Newtonian theory of gravity from Einstein's viewpoint. The equivalence principle. General relativity. Newtonian and relativistic cosmology. Black hole solutions. Thermodynamics of black holes. —E. Spiegel
Prerequisite: A working knowledge of calculus and elementary physics.
3 points. Tu Th 1:10-2:25

AST W 3461x
Order and Disorder in Nature
Prerequisite: Math V 1102 or the equivalent, or permission of the instructor.
3 points. Not offered in 1995-96.

AST C 3646x
Observational Astronomy
Prerequisites: three points of previous coursework in astronomy or physics; by permission this can be a corequisite.
3 points. Not offered in 1995-96.

AST C 3997x and C 3998y
Seminar and Research Course
Topics in current research. —J. Applegate
1-3 points. Hours TBA.

For description of other astronomy courses, see the *Columbia College Bulletin.*

PHYSICS COURSES

PHY C 1001x, 1002y
Elementary Physics
An introduction to physics with emphasis on quantum phenomena, relativity, and models of the atom and its nucleus. —E. Weinberg
No previous background in physics is expected; high school algebra is required. Satisfies the Barnard science requirement if taken with BC 1091-2, but not the physics requirement for admission to medical school.
3 points. Tu Th 1:10-2:25

PHY BC 1091x, 1092y
General Physics Laboratory
Laboratory to accompany PHY C 1001, 1002. First semester: statistics, falling motion, harmonic motion, collisions, pressure, and heat. Second semester: light, electrons, atoms. —x: R. Friedberg, y: S. Koutsoliotas
Corequisite: PHY C 1001, 1002 or permission of the instructor.
1 point. Hours TBA.

PHY V 1201x, 1202y
General Physics (formerly 1003x, 1004y)
Mechanics, heat, electricity, magnetism, optics, and modern physics. —x and y: E. Aprile
No prerequisite. Non-calculus based approach.
4 points. Lecture M W 11:00-12:15
Laboratory: 3 consecutive hours to be chosen from M Tu W Th F 1:10-4:00 or M Tu W Th 4:10-7:00. Laboratory sections are arranged after the first class meeting.

PHY V 1900x, y
Seminar in Contemporary Physics and Astronomy
Lectures on current areas of research with discussions of motivation, techniques, and results, as well as difficulties and unsolved problems. Each student submits a written report on one field of active research. —M. Schwartz
Prerequisite or corequisite: any 1000-level course in the Physics or Astronomy departments. This course may be repeated for credit only with the instructor's permission.
1 point. F 11:00-12:00

PHY BC 1206x
Physics I: Mechanics
Fundamental laws of mechanics. Kinematics, Newton's Laws, work and energy, oscillations, gravitation, conservation laws, collisions, rotation. —S. Koutsoliotas
Corequisite: Calculus I or the equivalent.
4.5 points. Tu Th 10:35-11:50
Laboratory hours TBA.

PHY BC 1207y
Physics II: Electricity and Magnetism
Charge, electric field, and potential. Gauss' Law. Circuits: capacitors and resistors. Magnetism and electromagnetism. Induction and inductance. Alternating currents. Maxwell's equations, waves. —S. Koutsoliotas
Prerequisite: Physics BC 1206y or the equivalent.
Corequisite: Calculus II.
4.5 points. Tu Th 10:35-11:50
Laboratory hours TBA.

PHY BC 1208x
Physics III: Waves and Optics
Study of wave phenomena, optics, and introductory quantum physics: mechanical, sound, water

and light waves; geometrical optics; interference and diffraction. —T. Halpin-Healy
Prerequisites: Physics BC 1207x or the equivalent.
Corequisite: Calculus III.
4.5 points. Tu Th 10:35-11:50
Laboratory: hours TBA.

PHY C 1801x, 1802y
General Physics *(formerly 1021x, 1022y)*
Mechanics, heat, electricity, magnetism, and light. —S. Ritz
Prerequisite: Advanced placement in mathematics or some knowledge of differential and integral calculus and permission of the departmental representative. (A special placement meeting is held during Orientation Week.)
4 points. Lecture Tu Th 10:35-11:50
Laboratory: 3 hours TBA at the first class meeting.

PHY W 3003x
Mechanics
Newtonian mechanics. Conservative forces and potential energy. Central forces. Planetary motion. Rutherford scattering. Free and forced oscillations. Relativistic mechanics. —F. Sciulli
Prerequisites: General physics and integral calculus.
3 points. M W 11:00-12:15

PHY W 3007y
Electricity and Magnetism
Electrostatics and magnetostatics. Laplace's equation and boundary-value problems. Multipole expansion. Dielectric and magnetic materials. Faraday's law. AC circuits. Maxwell's equations. Lorentz covariance and special relativity. —M. Schwartz
Prerequisites: BC 1207 or the equivalent, and differential and integral calculus.
3 points. M W 11:00-12:15

PHY W 3008x
Electromagnetic Waves and Optics
Maxwell's equations and electromagnetic potentials. The wave equation. Propagation of plane waves. Reflection and refraction. Geometrical optics. Transmission lines, wave guides, and resonant cavities. Radiation. Interference of waves. Diffraction. —W. Lee
Prerequisite: W 3007.
3 points. M W 9:35-10:50

PHY W 3021y
Quantum Physics
Wave-particle duality and the Uncertainty Principle. Order-of-magnitude estimates in atomic physics. Basic principles of the quantum theory. Energy levels in one-dimensional potential wells. The harmonic oscillator, photons, and phonons. Reflection and transmission by one-dimensional potential barriers. Introduction to atomic and molecular physics. Electron spin resonance. Nuclear magnetic resonance. —P. Rowson
Prerequisite: BC 1208 or C 1802 or the equivalent.
3 points. Tu Th 9:00-10:15

PHY W 3022y
Thermal and Statistical Physics
Thermodynamics, kinetic theory, and statistical mechanics presented from a unified point of view. Classical and quantum statistics. The ideal gas. Black-body radiation. Liquid helium and superfluidity. Introduction to solid-state physics. Properties of metals, semiconductors, and insulators. Transistors. —R. Friedberg
Prerequisite: W 3021x.
3 points. Tu Th 9:00-10:15

PHY W 3072y
Seminar in Current Research Problems
A detailed study of a selected field of active research in physics. The motivation, techniques, and results obtained to the present, as well as the difficulties and unsolved problems. —M. Ruderman
Open only to senior majors. May be taken for Pass/D/Fail credit only.
2 points. W 4:10-5:25

PHY W 3081x, y
Intermediate Laboratory Work
The laboratory has available 12 individual experiments, of which two are required for 1.5 points. Each experiment is chosen by the student in consultation with the instructor. Registration in each section is limited by the laboratory capacity. Experiments (classical and modern) cover electricity, optics, and atomic and nuclear physics topics. —B. Knapp, M. May
For junior and senior physics majors. Other majors require permission of the instructor. May be repeated for credit by performing different experiments.
1.5 points. M or F 1:10-5:00

PHY BC 3082x, y
Advanced Physics Laboratory
Barnard College physics laboratory has available a variety of individual experiments, of which two are required for 1.5 points. Each experiment is chosen by the student in consultation with the instructor, requires substantial preparation, and is followed up by written and oral presentations. Registration is limited by laboratory capacity. Experiments investigate Poisson Statistics, beta decay, driven oscillators, as well as high-temperature superconductivity. Numerical (i.e., computer) experiments

in statistical physics and chaos are also possible, using the department's minicomputer facility. —T. Halpin-Healy
Intended primarily for junior and senior physics/astro majors and may be repeated for credit by performing different experiments. Enrollment limited to 6.
1.5 points. Laboratory hours TBA.

PHY W 3083y
Electronics Laboratory
Experiments in solid state electronics, with introductory lectures. —W. Zajc
Permission of the instructor required.
Corequisite: W 3003 or W 3007. Registration is limited to the capacity of the laboratory.
2 points. M W 1:00-4:00

PHY V 3500x, y
Supervised Readings in Physics
Readings in a selected field of physics under the supervision of a faculty member. Written reports and periodic conferences with the instructor. —Staff
Prerequisite: written permission of the faculty member who agrees to act as supervisor and the permission of the departmental representative.
3 points.

PHY V 3900x, y
Supervised Individual Research
For specially selected students, the opportunity to do a research problem in contemporary physics under the supervision of a faculty member. Each year several juniors are chosen in the spring to carry out such a project beginning in the autumn term. A detailed report on the research is presented by the student when the project is complete. —Staff
Permission of the department representative required.
1 to 5 points a term.

PHY G 4003y
Lagrangian Mechanics
Lagrange's formulation of mechanics. The calculus of variations and the action principle. Hamilton's formulation of mechanics. Applications to rigid body motion and normal modes. —M. Kamionkowski
Prerequisite: W 3003.
3 points. M W 9:35-10:50

PHY G 4021x
Quantum Mechanics
The formulation of quantum mechanics in terms of state vectors and linear operators. Three-dimensional spherically symmetric potentials. The theory of angular momentum and spin. Identical particles and the exclusion principle. Methods of approximation. Multi-electron atoms. —P. Kaaret
Prerequisites: W 3003, W 3007, W 3021.
3 points. Tu Th 10:35-11:50

For a description of other courses, see the *Columbia College Bulletin.*

PHY F 1201x, 1202y
General Physics
4 points. Hours TBA. Lab TBA.

PHY W 1201y, 1202x
General Physics
4 points. Hours TBA. Lab TBA.

PHY C 1601x, 1602y
General Physics I, II
3 points. Hours TBA.

PHY W 1906x, 1907y
Physics Laboratory
1 point. Lab TBA.

POLITICAL SCIENCE

417 Lehman Hall 854-8422

Professors: Demetrios Caraley[3] (Janet H. Robb Professor), Dennis Dalton (Ann Whitney Olin Professor), Peter Juviler[2], Richard M. Pious (Acting Chair)

Associate Professors: Robert Amdur (Visiting), Robert W. Bailey (Visiting), Michael X. Delli Carpini[3] (Chair), Paula Franzese (Visiting), Ester Fuchs

Assistant Professors: John H. Glascock (Visiting), Xiaobo Lü (Departmental Representative), Judith Russell (Departmental Representative), J. Phillip Thompson[3], Naomi Weinberger

Lecturers: Leslie Calman, Flora Davidson, Martin Malin

Associate: Sanya Popovíc

Other officers of the University offering courses listed below:

Professors: Lisa Anderson, David A. Baldwin, Thomas P. Bernstein, Richard Betts, Seweryn Bialer[1], Douglas A. Chalmers, Gerald L. Curtis, Julian H. Franklin, Charles V. Hamilton, Robert Jervis, Ira Katznelson, Mark Kesselman[1], Robert Legvold, Andrew Nathan[3], Richard Nelson, Joseph Rothschild, John Gerard Ruggie, Warner R. Schilling, Jack Snyder, Alan F. Westin[2]

Associate Professors: Charles Cameron[3], Jean Cohen, David Johnston, Edward D. Mansfield, Helen Milner, Barnett Rubin, Robert Shapiro

Assistant Professors: David L. Downie, David Epstein[3], Peter A. Johnson, Robert C. Lieberman, Carlton Long[1], Arvid Luskauskas, Anthony Marx, Sharyn O'Halloran[3], Sunita Parikh[3], Steven Solnick[2], Hendrik Spruyt, Robert M. Uriu[1], Patrick J. Wolf

[1]Absent on leave Autumn term

[2]Absent on leave Spring term

[3]Absent on leave 1995-96

The purpose of the study of political science is to develop understanding of the basic political institutions and processes in human society. This understanding involves analysis and evaluation of political systems and public policies in the context of the challenges they face and the changes they undergo. The major is designed to equip the student to play an effective role as citizen in a democratic political order, to participate more actively in political life as public or party official, civil servant, lawyer, or political commentator, or to undertake graduate training in political science in preparation for a career in college teaching. Students interested in public service careers should inquire about the five-year joint degree program with the Columbia Graduate Program in Public Policy and Administration of the School of International and Public Affairs.

REQUIREMENTS FOR THE MAJOR

A student majoring in Political Science is required to take a minimum of nine semester courses from the department's listed offerings, including:

A. Political Science BC 3001 *Dynamics of American Politics*

B. One of the following courses:

Political Science V 3501	*Introduction to Comparative Politics*
Political Science V 3601	*International Politics*
Political Science BC 3013	*Political Theory*

C. Two colloquia or other courses having a research paper from among those courses designated by an asterisk (*); and

D. Two semesters of research seminar for the senior thesis (see below).

In order to have the opportunity for independent specialized work in depth, and to explore more fully the techniques of scholarly investigation, both majors and concentrators

are required to write a senior thesis as part of the work for the required two-semester research seminar (either Political Science BC 3761-BC 3762, *Research Seminar*, or V 3711-V 3712, *Research Seminar in American Politics*).

The department's requirements are flexibly drawn to permit a major, in consultation with her adviser, to plan an overall program that, while providing some background in various areas of government and politics, can place special emphasis on such particular interests as the American political system (including its urban subsystem), foreign political systems, international relations, or political theory.

Departmental approval must be granted for transfer courses used toward the major. Only three transfer courses may be counted.

REQUIREMENTS FOR URBAN AFFAIRS MAJORS WITH POLITICAL SCIENCE CONCENTRATION

A student majoring in Urban Affairs with a concentration in Political Science is required to take a minimum of six semester courses, including:

Political Science BC 3001	*Dynamics of American Politics*
Political Science V 3313	*American Urban Politics*

Two from the following courses:

Political Science BC 3322	*The American Congress*
Political Science BC 3326	*Colloquium on Civil Rights and Liberties*
Political Science BC 3327	*Colloquium on the Content of American Politics*
Urban Affairs BC 3535-BC 3537	*Colloquium—Workshop in Urban Administration and Management*
Political Science V 3306	*Political Economy of Cities*
Political Science G 8232	*Colloquium on Urban Politics, Policymaking, and Administration*

Two semesters of research seminar for the senior thesis.

REQUIREMENTS FOR THE MINOR

A student minoring in Political Science is required to take a minimum of five semester courses, including Political Science BC 3001.

COURSES OF INSTRUCTION

In addition to Barnard offerings, the following list includes the titles, instructors, days and times of Columbia offerings for the 1995-96 academic year. For detailed descriptions of these courses, see the *Columbia Bulletin*.

GENERAL COURSES

Courses listed under this heading may be taken without previous study of political science.

POS BC 3001x, y
Dynamics of American Politics
Examination of the dynamics of the American political system at the national level including political participation elections, political parties, and national political institutions: the Presidency, the Congress, and the Judiciary. —Staff
Credit is not granted for both this course and W 3201.
3 points. *III S*

x: Sec.1 M W 11:00-12:15 —R. Pious
Sec.2 Tu Th 10:35-11:50 —J. Glascock
y: M W 11:00-12:15 —R. Pious

POS BC 3007y
Modern Political Movements
Causes, structures and strategies of 20th-century political movements with particular reference to issues of imperialism, nationalism, and race. Case studies of Indian nationalism, Nazism, communism, and civil rights movements. —D. Dalton
3 points. M W 9:10-10:25 *I S*

POS BC 3013x, 3014y
Political Theory I, II

Major texts of political theory from Plato to the present. Emphasis on comparison of basic concepts such as those of human nature and the ideal society, freedom and authority, equality and leadership, methods of creating change. —D. Dalton
BC 3013 is a prerequisite for BC 3014. No credit is given for BC 3014 unless BC 3013 has been satisfactorily completed.
3 points. Tu Th 9:10-10:25 *S*

POS V 3313y
American Urban Politics

Patterns of government and politics in America's large cities and suburbs. Urban socioeconomic environment, influence of party leaders, local officials, social and economic notables, racial, ethnic, and other interest groups, press, the general public, and federal and state governments; impact of urban government on ghetto and other urban problems. —J. Russell
3 points. M W 1:10-2:25 *III S*

POS V 3501x, y
Introduction to Comparative Politics

An introduction to major issues and theories in comparative politics, democratization, and human rights.
3 points. x: Tu Th 2:40-3:55 —P. Johnson
Discussion sections TBA.
y: Tu Th 10:35-11:50 —X. Lü
Optional discussion sections TBA. *I S*

POS V 3601x, y
International Politics

Setting and dynamics of global politics; application of theories of international relations to selected historical and contemporary problems.
3 points.
x: Sec. 1 Tu Th 1:10-2:25 —N. Weinberger
Discussion section TBA.
Sec. 2 Tu Th 6:10-7:25 — H. Spruyt
Discussion section TBA.
y: M W 11:00-12:15 — R. Jervis
Discussion section TBA. *I S*

LECTURE COURSES

American Government and Politics

POS V 3320x
Contemporary Black Politics

An examination of the major issues in contemporary black politics including voting, black electoral campaigns, the role of African Americans in national politics, and African Americans in political office. —Instructor TBA.
3 points. Hours TBA. *III S*

POS BC 3322y
The American Congress

Dynamics, organization, and policymaking processes of the American Congress. Relationship of legislators to constituents, lobbyists, bureaucrats, the President, and one another. —J. Glascock
Prerequisite: BC 3001 or the equivalent.
3 points. M W 10:35-11:50 *S*

POS BC 3335x
Mass Media and American Democracy

An examination of the structure of the mass media in the United States and their impact on the political and social beliefs, opinions, and behaviors of both the mass public and political elites. Particular attention will be paid to the tension that forms between the potential for an informed citizenry and the potential for a manipulated public.
Prerequisite: BC 3001 or the equivalent.
3 points. Not offered in 1995-96. *III S*

POS BC 3336x, y
Workshop in Mass Media and Politics

Junior or senior status: prearrange internship through the Office of Career Services. Prerequisite or corequisite: POS BC 3335 or the equivalent. Permission of the instructor required.
2 points. Not offered in 1995-96.

POS W 4311x
American Parties and Elections

The changing role of political parties and elections in the American political system. The historical development of party conflict; the structure of party organization at the local and national levels; the roles of party and the media during presidential elections; who votes and why; and the future of American political parties. —E. Fuchs
3 points. M W 11:00-12:15 *III S*

POS W 4316x
The American Presidency

Growth of presidential power, creation and use of the institutionalized presidency, presidential-congressional and presidential-bureaucratic relationships, and the presidency and the national security apparatus. —R. Pious
Prerequisite: BC 3001 or the equivalent.
3 points. M W 1:10-2:25 *III S*

POS W 3245x
Race and Ethnicity in American Politics

—Instructor TBA.
3 points. Hours TBA.

POS W 3399x
The Supreme Court and American Politics
—A. Westin
Prerequisite: Sophomore standing.
3 points. M W 11:00-12:15

POS W 3400x
Law and Politics of Civil Liberties
—A. Westin
3 points. M W 2:40-3:55

POS W 4220y
The Mass Media in American Government and Politics
—B. Nacos
Not open to students who have taken POS BC 3335.
3 points. Tu Th 6:10-7:25

POS W 4240x
Bureaucracy and Politics
—P. Wolf
3 points. Tu Th 10:35-11:50

POS W 4290y
Themes in 20th-Century American Politics and Society
—I. Katznelson
3 points. M W 4:10-5:25

Comparative Politics and Foreign Government

POS BC 3424x
Asian Politics
A survey of origins, development, and dynamics of politics in post-war Asia, with a focus on countries in East and Southeast Asia. We will examine political institutions, cultures, and processes in these countries.
3 points. Not offered in 1995-96.

POS V 3620x
Introduction to Contemporary Chinese Politics
An introduction to some basic aspects and major events in Chinese political life under the communists since 1949, focusing on the post-Mao reform period since 1978. Examination of economic and political development in China in a broader context of global transition from authoritarianism and state socialism. —X. Lü
Recommended prerequisites: POL V 3501 and/or POL BC 3425.
3 points. Tu Th 10:35-11:50 *II S*

POS W 4842y
Conflicts and Conflict Resolution in the Middle East
Comparative analysis of conflicts and efforts at conflict resolution in the Middle East, focusing on inter-Arab politics, the confrontation in the Gulf, and the Arab-Israel conflict. Sources of conflict between states, the dynamics of intervention in civil strife, and the role of extraregional actors will be examined. —N. Weinberger
Prerequisite: V 3501 or V 3601 or permission of the instructor.
3 points. Tu Th 1:10-2:25 *II S*

POS W 3502x
Political Change in the Third World
—A. Marx
3 points. Tu Th 10:35-11:50

POS W 3505x
Revolutions
—S. Bialer
3 points. Tu Th 2:40-3:55

POS W 3510y
Democracy and Authoritarianism
—D. Chalmers
3 points. M W 11:00-12:15

POS W 3517x
The Politics of Eastern Europe
—J. Rothschild
3 points. Tu Th 9:10-10:25

POS W 4405y
Politics of South Africa
—A. Marx
3 points. Tu Th 6:10-7:25

POS W 4420x
Politics in Advanced Capitalism in Western Europe and the U.S.
—M. Kesselman
Mandatory discussion section.
3 points. Hours TBA.

POS W 4445y
Politics in the Middle East and North Africa
—Instructor TBA.
3 points. Hours TBA.

POS W 4461x
Latin American Politics
—D. Chalmers
Mandatory discussion section TBA.
3 points. Hours TBA.

POS W 4491x
States and Markets in Eurasia
—S. Solnick
Mandatory one-hour discussion section.
3 points. M 2:10-4:00 W 5:00-6:00

POS W 4496y
Contemporary African Politics
—R. Kassimir
Prerequisite: Junior or senior standing and permission of the instructor.
3 points. M W 11:00-12:15

International Relations and Foreign Policy

POS W 3613x
International Politics and the Environment
—D. Downie
3 points. Tu Th 2:40-3:55

POS W 3617y
Grand Strategies of the Great Powers
—J. Snyder
3 points. Tu Th10:35-11:50

POS W 3630y
The Politics of International Economic Relations
—Instructor TBA.
3 points. Hours TBA.

POS W 3631x
American Foreign Policy
—D. Baldwin
3 points. M W 11:00-12:15

POS W 4804y
The Making of American Foreign Policy
—R. Betts
Prerequisite: POS V 3601 or permission of the instructor.
3 points. M W 11:00-12:15

POS W 4808y
Weapons, Strategy, and War
—W. Schilling
3 points. M W 4:10-5:25

POS W 4812x
American Strategies in World Politics
—W. Schilling
3 points. M W 4:10-5:25

POS W 4846x
International Politics of the Middle East
—Instructor TBA.
3 points. Hours TBA.

POS W 4869x
Korean Foreign Relations
—S. Kim
3 points. Tu Th 2:40-3:55

POS W 4871y
Chinese Foreign Policy
—T. Bernstein
3 points. Tu Th 11:00-12:15

POS W 4882y
The Foreign Policies of the Post-Soviet States
—R. Legvold
3 points. M 4:10-6:00

POS W 4895x
War, Peace, and Strategy
—R. Betts
3 points. M W 11:00-12:15

Political Theory

POS W 4133x
Foundations of Political Thought: Classical and Medieval
—J. Franklin
3 points. Tu Th 10:35-11:50

POS W 4134y
Modern Political Thought
—R. Amdur
3 points. Tu Th 10:35-11:50

POS W 4610x
Theories of Justice
—D. Johnston
3 points. M W 11:00-12:15

POS W 4612y
Recent Continental Political Thought
—J. Cohen
3 points. Tu 2:10-4:00 and mandatory discussion hour.

COURSES IN QUANTITATIVE METHODS

POS BC 3345y
Statistical Analysis of Politics and Policy
Use of the microcomputer, including SPSS and electronic spreadsheets, in analysis of problems in the political process and public policy; practical applications in statistical analysis.
—Instructor TBA.
Satisfies Quantitative Reasoning requirement.
Recommended prerequisite: BC 3001.
4 points. Hours and Lab TBA.

POS W 4209x
Game Theory and Political Theory
—Instructor TBA.
3 points. Hours TBA.

POS W 4910x
Principles of Quantitative Political Research
—Instructor TBA.
4 points. Hours TBA.

POS W 4911y
Analysis of Political Data
—Instructor TBA.
4 points. Hours TBA.

COLLOQUIA

**POS BC 3055x*
Colloquium on Political Violence and Terrorism
Contemporary political violence and terrorism in comparative perspective. Case studies include the Middle East, South Africa, Northern Ireland, and Peru; and the role of the media, with special attention to international responses to sub-state violence. —S. Popovič
4 points. Tu 2:10-4:00 *II S*

**POS BC 3118y*
Colloquium on Problems in International Politics
Readings, discussions, and presentations on selected problems in international politics. Sec.1: Israeli and Palestinian nationalism: conflict and mediation. —N. Weinberger
Prerequisite: Course V 3601 and permission of the instructor.
4 points. W 2:10-4:00 *I S*

**POS BC 3221x*
Colloquium on Politics and Human Rights in Post-Soviet Systems
Soviet conception of governing authority and human rights; the interaction of government and citizens. —P. Juviler
Prerequisite: V 3501 or BC 3007, or Soviet politics or history. Admission by application only.
4 points. Th 2:10-4:00 *I S*

**POS BC 3326y*
Colloquium on Civil Rights and Liberties
Exploration of some currently evolving civil rights and liberties, primarily through analysis of Supreme Court decisions and pending cases. Topics include race and sex discrimination; sexual harassment; desegregation; affirmative action; freedom of expression, including pornography and "hate speech"; and abortion. —P. Franzese
Prerequisite: BC 3001 or equivalent and permission of instructor.
4 points. Hours TBA. *S*

**POS BC 3327x*
Colloquium on Content of American Politics
The consequences of federalism for contemporary American politics. Examination of the renewal in recent decades of tension between the states and the national government regarding distribution of power, authority, and responsibility in the federal system. Further examination of the political issues and Constitutional questions that proceed from this conflict. —J. Glascock
Prerequisite: BC 3001 or equivalent and permission of the instructor.
4 points. W 2:10-4:00 *III S*

**POS BC 3331y*
Colloquium on American Political Decisionmaking
Readings on decisionmaking, policy analysis, and the political setting of the administrative process. Students will simulate an Ad Hoc Cabinet Committee assigned to prepare a presidential program to deal with aspects of the foreign aid program involving hunger and malnutrition. —R. Pious
4 points. M 2:10-4:00 *I S*

**POS BC 3333x, y*
Colloquium on Policy Analysis
x: A comparative perspective on critical issues of social policy facing the U.S. today.
y: Theoretical aspects and practical applications of policy analysis. Topics include the policymaking process and the roles and tools of policy analysis. Actual case studies will be used. Students will also simulate case studies for analytical purposes.
Prerequisite: BC 3001 or equivalent and permission of the instructor. Enrollment limited to 18 students.
4 points. x: M 2:10-4:00 —C. Ullman
y: Tu 11:00-12:50 —J. Russell *III S*

**POS BC 3410y*
Colloquium on Human Rights in a Diverse World
Exploration of the nature of human rights and questions of their validity and relevance, protection and redefinition, in this world of cultural diversity and diversity of national interests.
Open to juniors and seniors of Barnard and Columbia by application in November and December, through the Barnard Political Science office, Lehman Hall.
4 points. Not offered in 1995-96. *I S*

**POS BC 3414y*
Colloquium on Women and Third World Politics
An exploration of how women and political structures influence one another in Asia, Latin

America, the Middle East, and Africa. How do different political systems and political cultures influence women's status and power? What are influences on women's level and mode of participation? What benefits do or do not accrue to them from participation? —L. Calman
Prerequisite: POS V 3501, BC 3007 or W3502. Admission by application only.
4 points. Th 2:10-4:00 *I S*

POS BC 3416y
Colloquium on Personality and Politics
Readings, discussion, and research on the role of personality in shaping political behavior, with special attention to the impact of personality in political leaders.
Permission of the instructor required. Enrollment limited to 16 students.
4 points. Not offered in 1995-96. *S*

POS BC 3423y
Colloquium on Nonviolence
Nature and dynamics of nonviolent action especially when directed at gaining political and social change. Focus on Mahatma Gandhi's theory and practice of nonviolence in South Africa and India, 1906-1947. Comparison of this example with other instances of nonviolent action in 20th-century America and Europe.
Prerequisites: BC 3013, BC 3014 and BC 3007. Admission by application only.
4 points. Not offered in 1995-96. *I S*

POS BC 3425x
Colloquium on the Politics of Development in East Asia
Designed to inform students about the politics of development in one of the world's most rapidly growing regions — East Asia (Japan, China, Korea, and Taiwan), focusing on the role of the state in economic development. — X. Lü
Prerequisite: V3501 or the equivalent. Enrollment limited to 15 students. Admission by application only.
4 points. W 2:10-4:00 *II S*

POS BC 3433x
Colloquium on Concepts of Democratic Political Theory
—R. Amdur
Permission of the instructor required.
4 points. Th 2:10-4:00 *III S*

POS BC 3440y
Colloquium on Women in Western Political Thought
—Instructor TBA.
Permission of the instructor required.
4 points. Hours TBA. *I S*

POS G 8232y
Colloquium on Urban Politics, Policymaking, and Administration
Politics, policymaking, and administration in large cities. Particular attention is given to urban social and economic problems and the federal government's role in urban affairs; the resources, strategies, and tactics of selected officials and private influentials; and alternative futures of large cities. —Instructor TBA.
Prerequisite: BC 3001 or V 3313 and permission of the instructor.
4 points. Hours TBA. *III S*

Political Science-Women's Studies
PSW BC 3683x
The Politics of Family
The development of and debates about U.S. public policies and laws relating to families. Issue areas include the creation of the modern welfare state; social welfare policies concerning mothers and children; contemporary debates about "family values;" changing definitions of family; governmental policies regarding violence within the family; divorce law and practice; and the state's role in regulating sexuality and reproduction. —L. Calman
4 points. Th 2:10-4:00 *III S*

Urban Affairs UAF BC 3535y
Colloquium on Urban Administration and Management
—Instructor TBA.
Prerequisite: BC 3001 or V3313 or the equivalent. Enrollment limited to 20 students.
4 points. Hours TBA. *III S*

Urban Affairs UAF BC 3537y
Workshop in Urban Administration and Management
—Instructor TBA.
Corequisite: Urban Affairs BC 3535.
2 points. Hours TBA.

RESEARCH SEMINARS

Admission to particular sections of the research seminar is limited. During Spring preregistration students must apply for the section desired.

POS V 3711x-3712y
Research Seminar in American Politics
Discussions, conferences, and the writing of a senior essay on a topic, selected by each student, of American public policy and politics. —Staff
4 points. Two semesters.
Sec. 1 Tu 4:10-6:00 —J. Russell
Sec. 2 Th 4:10-6:00 —R. Bailey
Sec. 3 W 4:10-6:00 —J. Glascock

POS BC 3761x-3762
Research Seminar
Discussion and conferences on the researching and writing of the senior essay. — Staff
4 points. Two semesters.
Sec. 1 Th 4:10-6:00 —P. Juviler
Sec. 2 W 4:10-6:00 —X. Lü
Sec. 3 W 4:10-6:00 —N. Weinberger
Sec. 4 Tu 4:10-6:00 —D. Dalton

POS V 3701x, 3702y (Columbia)
Seminars in American Politics I, II
Prerequisite: POS W 3201 and the instructor's permission. Either term may be taken separately.
4 points.
x: Sec. 1 W 2:10-4:00 —C.V. Hamilton
Sec. 2 Hours TBA. —Instructor TBA.
Sec. 3 Hours TBA. —Instructor TBA.
Sec. 4 Hours TBA. —Instructor TBA.
y: Sec. 1 M 2:10-4:00 —C.V. Hamilton
Sec. 2 Tu (Th lab) 2:10-4:00 —R. Shapiro
Sec. 3 W 2:10-4:00 —A. Gondek
Sec. 4 Hours TBA. —C. Long

POS W 3733x
Seminars in Comparative Politics: Major Dictators of the 20th Century
—T. Bernstein
Prerequisite: POS V 3501 or the equivalent.
4 points. F 11:00-12:50

POS W 3734y
Seminars in Comparative Politics: Political Parties
—G. Curtis
4 points. Th 2:10-4:00

POS W 3760y
Seminars in Comparative Politics: Multidisciplinary Approaches to Latin American Politics, Society, and Culture
—K. Roberts-Hite
4 points. Tu 2:10-4:00

POS W 3811x, 3812y
Seminars on International Politics
Prerequisite: POS V 3601 and the instructor's permission.
4 points. Either term may be taken separately.
x: Sec. 1 Tu 4:10-6:00 —W.R. Schilling
Sec. 2 M 4:10-6:00 —H. Milner
Sec. 3 Tu 2:10-4:00 —J. Snyder
y: Sec. 1 W 4:10-6:00 —D. Baldwin
Sec. 2 M 2:10-4:00 —E. Mansfield
Sec. 3 W 2:10-4:00 —H. Spruyt

POS W 3833x
Seminars in Political Ideas: Democracy and Difference
—J. Cohen
Prerequisite: POS BC 3013 or equivalent, and the instructor's permission.
4 points. M 2:10-4:00

Political Science-Sociology PSS V 3994x-3995y
New York Area Undergraduate Research Program
An ongoing program that develops a social research project from conceptualization to final report. Using New York City as a research laboratory, students choose different topics each year for study. Under the guidance of the faculty coordinator, students clarify basic theoretical issues related to the research problem; operationalize a series of empirical questions; collect evidence to test hypotheses; analyze the data using a variety of social science techniques; and produce reports of basic findings. Students individually and in small groups learn many of the basic tools used by social scientists. —J. Russell
Prerequisite: Junior or senior standing. Enrollment limited to 10-15 students, selected by application only. Participation is for two terms. Does not satisfy seminar requirement for Barnard POS majors.
4 points. Tu 2:10-4:00

GRADUATE COURSES

Certain graduate courses given in the University are open to qualified majors with the consent of the department and the major adviser. These courses are described in the bulletins of the Graduate School of Arts and Sciences, the Graduate Program in Public Affairs and Administration, and the School of International and Public Affairs.

COURSES OFFERED AT REID HALL IN PARIS

The following courses are offered, in French, at Reid Hall in Paris. For additional information, see the Reid Hall Programs bulletin available in 412 Lewisohn Hall.

Political Science H 3210x, y
France and Africa: Post-colonial Relations
The post-colonial system of political, economic, and cultural relationships evolved by France and her former colonies, the new rules governing those relationships, and their impact on France and in competing powers in their respective interactions with African states. —C. Amegan
3 points.

Political Science H 3---y
The Politics of French Identity

The impact of immigration, cultural diffusion, and economic and political integration within the European Union on patterns of political conflict, public policy, changed role of the state, new forms of collective identity and action, and changing conceptions of French citizenship. Toward the end of the term, students present to the seminar the results of their research, based on traditional library research and interviews with participants in French politics and society. In addition, attendance at a related lecture series is required. —Instructors TBA.
See Reid Hall Bulletin for full description.
7 points. Hours TBA.

History-Political Science H 3240x, y
The State and Political Life in France from the Revolution to the Present

The continuity and discontinuity of French political life during the past 200 years. Factors that assure the permanence of French political life are often hidden from view because of frequent dramatic breaks and changes in political regimes. Through analysis of moments of turmoil and change, the underlying element of permanence is traced. Key dates indispensable to the study of contemporary France are discussed. —D. Hemery
3 points.

History-Political Science H 3260y
The French Intellectual and France in Crisis: From the Dreyfus Case to May 1968

The roles and influences of French intellectuals within the political arena and the national struggles of contemporary France. Special attention is given to moments of crisis: the Dreyfus case, the 30's, World War II, the Algerian War, etc. Establishes a typology of intellectual attitudes in France by examination of a series of "case studies" and the tracing of the evolution of particular intellectual points of view. —C. Prochasson
3 points.

PSYCHOLOGY

415 Milbank Hall 854-2069

Professors: Peter Balsam (Chair), Lila Ghent Braine[1], Robert Remez, Rae Silver (Helene L. and Mark N. Kaplan Professor)

Adjunct Professor: Thomas Perera

Associate Professor: Carolyn A. Ristau (Visiting)

Adjunct Associate Professors: Wendy McKenna, Corliss Parker

Assistant Professors: Larry B. Heuer, Tovah Klein, Gail Musen[2], Steven Stroessner, Barbara Woike

Senior Lecturer: Susan Riemer Sacks

Adjunct Assistant Professors: Peter Coleman, Maria Crisafi, Jacqueline Fleming, Patricia Kenny, Sandra F. Stingle, Patricia Stokes

[1]Absent on leave Autumn term

[2]Absent on leave Spring term

Psychology is the study of behavior and experience, and therefore of a diversity of phenomena, from love to aggression, from the first babbling of infants to creative intellectual behavior, from sexual behavior to the mechanisms of taste. Faculty members in Psychology have a wide range of research interests, including social and cognitive development, memory, sexual and parental behavior, animal learning, interpersonal behavior, the self-concept, and the resolution of conflict.

Common to all areas of psychology is a concern with adequate and appropriate method. The student will encounter many perspectives on psychological evidence and technique through lecture, laboratory, field courses, and other offerings.

Opportunities are available for supervised research, teaching, and field experience. Independent study and the Senior Seminar involve participation in research with a faculty member. The Toddler Center and a course in Field Work in Psychological Services also provide first-hand contact with the study of psychology.

The department sponsors a Psychology Club.

Psychology as a major is good preparation for many careers. Many majors enter graduate school in psychology, neurosciences, education, and professional schools, including medical, law, and business schools. There is no set sequence for a major with a given career goal, but the department recommends a balance between courses that are directly preparatory and those which establish a broad intellectual foundation.

Science requirement: Students desiring to fulfill the science requirement through psychology are encouraged to take their lab courses in their early years at Barnard, because seniors do not receive priority in lab placements. To ensure exposure to different methods in psychology, the two lab courses will be drawn from different groups in psychology. See the description of lab groups under *Requirements for the Major.*

Students should preregister for courses in April and November for the following semester. Preregistration information is available in Room 415 Milbank.

A laboratory fee of $30 is charged for each laboratory course: BC 1105, BC 1108, BC 1117, BC 1123, BC 1127, BC 1130, BC 1136, and BC 1156.

Students interested in Biopsychology should consult page 98.

REQUIREMENTS FOR THE MAJOR

The student majoring in Psychology is exposed to the diversity of the discipline through the required core courses and the selection of appropriate electives.

Eight courses in psychology (of which two must be lab courses) and three courses in related disciplines are required for the major. Six of the eight required psychology courses must be taken at Barnard College. Statistics cannot be taken during the summer. Students

who have passed the Advanced Placement exam with a score of 4 or 5 are exempt from BC 1001 and receive 3 points of AP credit.

Students must take:

Psychology BC 1001	*Introduction to Psychology* (prerequisite for further psychology courses)
Psychology BC 1101	*Statistics* (preferably in the sophomore year)

Students must take one course from each group, of which two must be laboratory courses:

Group A

Psychology BC 1105 or 1107	*Psychology of Learning*
Psychology BC 1130 or 1132	*Human Learning and Memory*

Group B

Psychology BC 1108 or 1110	*Perception*
Psychology BC 1117 or 1119	*Physiological Psychology*

Group C

Psychology BC 1123 or 1125	*Psychology of Personality*
Psychology BC 1136 or 1138	*Social Psychology*
Psychology BC 1127 or 1129	*Developmental Psychology*
Psychology BC 1156 or 1158	*Psychological Measurement*

Three additional elective courses are required. Students may take more than one course in each group.

A maximum of two of the following courses may count toward the major: BC 3465, BC 3466, BC 3591, BC 3592, and BC 3599.

The three required courses in related disciplines should be distributed in this manner: one-year course sequence in a science, accompanied by a three-hour laboratory section (astronomy, biology, chemistry, environmental science, geology, or physics); and one course from the cognate disciplines (anthropology, computer science, economics, linguistics, philosophy, or sociology).

The eight required psychology courses must be taken for a letter grade; the grade must be C- or better.

The major examination consists of either the Graduate Record Examination in Psychology or satisfactory completion of Psychology BC 3591-BC 3592, *Senior Research Seminar*.

These revised requirements for the major are in effect for the Class of '95 and following years. When in doubt the student should consult with her major adviser, whom she should select when she decides to major in psychology. The student may select the appropriate adviser in consultation with the administrative assistant or the chair.

REQUIREMENTS FOR THE MINOR

Five courses are required for the minor, including Psychology BC 1001, BC 1101 and one laboratory course. Two additional electives, excluding Psychology BC 3465-BC 3466, BC 3591-BC 3592, and BC 3599, are required. These electives may be selected from the Psychology Department course offerings.Three of the five psychology courses must be taken at Barnard.

COURSES OF INSTRUCTION

INTRODUCTORY COURSE

PSY BC 1001x,y
Introduction to Psychology

Introduction to the chief facts, principles, and problems of human and animal behavior, through systematic study of a text, lectures, exercises, reading in special fields, and brief participation in a current investigation. (An alternative to participation can be arranged at the student's request.) —Staff
This course is prerequisite for all other Psychology courses. Enrollment is limited to 45 students per section.
3 points. x: Sec: 1 M W 11:00-12:15 —Staff
Sec: 2 M W 6:10-7:25 —Staff
Sec: 3 Tu Th 4:10-5:25 —C. Ristau
Sec: 4 Tu Th 10:35-11:50 —Staff
Sec: 5 Tu Th 1:10-2:25 —T. Perera
Sec: 6 M W 2:30-4:00 —Staff
y: Sec: 1 M W 1:10-2:25 —Staff
Sec: 2 M W 2:40-3:55 —W. McKenna
Sec: 3 Tu Th 10:35-11:50 —R. Remez
Sec: 4 Tu Th 1:10-2:25 —Staff
Sec: 5 Tu Th 2:40-3:55 —Staff

PSY BC 1099x, y
Science and Scientists

Weekly meetings with researchers to discuss the nature of scientific inquiry in psychology; and intellectual, professional, and personal issues in the work of scientists. —L. Heuer and guest scientists
Enrollment limited to first- and second-year students. Prerequisite: BC 1001 or permission of the instructor.
1 point. Tu 4:10-6:00

CORE COURSES

PSY BC 1101x,y
Statistics

Introduction to statistics and its applications to psychological research. Basic theory, conceptual underpinnings, and common statistics. Recitation devoted to discussion of weekly problem assignments. —Staff
Prerequisite: BC 1001 or permission of the instructors. Enrollment limited to 35 students per section. Preregistration.
4 points. x: Sec: 1 Tu Th 2:40-3:55 —S. Stroessner
Rec. W 9:00-11:00 or 11:00-1:00
Sec: 2 M W 2:40-3:55 —Staff
Rec. Tu 10:00-12:00 or 12:00-2:00
y: Sec: 1: Tu Th 4:10-5:25 —Staff
Rec. W 4:00-6:00
Sec: 2: M W 11:00-12:15 —Staff
Rec. Tu 9:00-11:00 or 11:00-1:00

PSY BC 1105x
Psychology of Learning

Basic methods, results, and theory in the study of how experience affects behavior. Operant and classical conditioning, and application of these procedures to analysis of behavior in a variety of species, including humans. Laboratory consists primarily of experiments using rats and humans as subjects. —P. Balsam and assistants
Prerequisite: BC 1001. Enrollment limited to 40 students. Preregistration.
4.5 points. Lecture Tu Th 10:35-11:50
Laboratory W or Th 1:00-4:00
Laboratory fee: $30.

PSY BC 1107x
Psychology of Learning

Same as BC 1105, but without the laboratory. —P. Balsam
Prerequisite: BC 1001 or permission of the instructor. Enrollment limited to 15 students.
3 points. Tu Th 10:35-11:50

PSY BC 1108x
Perception

Introduction to problems, methods, and research in perception. Discussion of psychological studies of seeing, hearing, touching, tasting, and smelling. In the laboratory, students conduct experiments and learn to report their findings. —R. Remez and assistants
Prerequisite: BC 1001 or permission of the instructor. Enrollment limited to 40 students. Preregistration.
4.5points. Lecture M W 11:00-12:15
Laboratory M or Tu 2:00-5:00
Laboratory fee: $30.

PSY BC 1110x
Perception

Same as BC 1108, but without the laboratory. —R. Remez
Prerequisite: BC 1001 or permission of the instructor. Enrollment limited to 15 students.
3 points. M W 11:00-12:15

PSY BC 1117y
Physiological Psychology

An introduction to the physiological bases of behavior: organization, connections and functions of the nervous system; neural bases of sensory processing, motor control, feeding, drinking, sexual behavior, sleep, aggression, reward, learning, and memory. —C. Ristau and assistants
Prerequisite: BC 1001. Enrollment limited to 40 stu-

dents. Preregistration.
4.5 points. Lecture Tu Th 10:35-11:50
Laboratory W 2:30-5:30 or Th 1:00-4:00
Laboratory fee: $30

PSY BC 1119y
Physiological Psychology
Same as BC 1117y, but without laboratory.
—C. Ristau
Prerequisite: BC 1001. Enrollment limited to 20 students.
3 points. Tu Th 10:35-11:50

PSY BC 1123y
Psychology of Personality
Surveys the principal approaches to personality and their implications for personality development, psychological adjustment, and everyday behavior. In laboratory, students will participate in all stages of personality research: conceptualizing a personality construct, designing and administering tests, identifying individual differences, and carrying out a study. —B. Woike
Prerequisite: BC 1001. Enrollment limited to 40 students.
4.5 points. Lecture: Tu Th 1:10-2:25
Laboratory: M or Th 9:00-12:00. Fee: $30.

PSY BC 1125y
Psychology of Personality
Same as PSY BC 1123y, but without laboratory.
—B. Woike
Prerequisite: BC 1001 or permission of the instructor.
3 points. Tu Th 1:10-2:25

PSY BC 1127x,y
Developmental Psychology
Cognitive, linguistic, perceptual, motor, social, affective, and personality development from infancy to adolescence. Laboratory offers an opportunity for direct contact with children; major areas of research at each level of development are covered. —*x:* Instructor TBA.
y: —L. Braine and assistants
Prerequisite: BC 1001 or permission of the instructor. Enrollment limited to 44 students.
Preregistration.
4.5 points. Lecture M W 1:10-2:25
Laboratory Tu 2:30-5:30, W 9:00-12:00
Laboratory fee: $30.

PSY BC 1129x,y
Developmental Psychology
Same as BC 1127, but without laboratory.
Prerequisite: BC 1001 or permission of the instructor. Enrollment limited to 20 students.
x —TBA, *y* —L. Braine
3 points. M W 1:10-2:25

PSY BC 1130y
Human Learning and Memory
Survey of contemporary theories of human memory. Topics will include sensory, short-term and long-term memory, levels of processing, organization, and encoding specificity. Special topics include eyewitness testimony, amnesia, implicit memory, and autobiographical memory. The laboratory consists of experiments related to these topics. —G. Musen and assistants
Prerequisite: BC 1001. Enrollment limited to 40 students. Preregistration.
4.5 points. Lecture M W 11:00-12:15
Laboratory M or Tu 2:00-5:00
Laboratory fee: $30.

PSY BC 1132y
Human Learning and Memory
Same as BC 1130, but without laboratory.
—G. Musen
Prerequisite: BC 1001.
3 points. M W 11:00-12:15

PSY BC 1136x
Social Psychology
A survey of contemporary theory and research on social thought and behavior. Issues such as person perception, attitudes, attraction, aggression, stereotyping, group dynamics, and social exchange will be explored. The application of theory and research to addressing social problems will be discussed. —L. Heuer and assistants
Prerequisite: BC 1001 or permission of the instructor. Enrollment limited to 50 students. Preregistration.
4.5 points. Lecture M W 11:00-12:15
Laboratory Tu or Th 9:00-12:00
Laboratory fee: $30.

PSY BC 1138x
Social Psychology
Same as BC 1136, but without laboratory.
—L. Heuer
Prerequisite: BC 1001 or permission of the instructor. Enrollment limited to 25 students.
3 points. M W 11:00-12:15

PSY BC 1156x
Psychological Measurement
Prerequisite: BC 1001. Preregistration.
4.5 points. Not offered in 1995-96.

PSY BC 1158x
Psychological Measurement
Prerequisite: BC 1001. Enrollment limited to 20 students.
3 points. Not offered in 1995-96.

MIDDLE-LEVEL COURSES

PSY BC 2134x
Educational Psychology

Through a participative classroom model the major theories of human development and learning fundamental to the educative process are examined. Analysis of applications and implicatins of psychological knowledge for classroom teaching through observations in elementary and secondary school classes. Includes instructional models, motivation, teaching and learning strategies, evaluations, and gender issues. —S.R. Sacks
Prerequisite: BC 1001 or permission of the instructor.
3 points. Tu Th 2:40-3:55

PSY BC 2141x,y
Abnormal Psychology

Introduction to the study of deviant and maladaptive behaviors such as childhood disorders, depression, schizophrenia, eating disorders, and mental retardation, focusing on scientific, philosophical and sociocultural issues in the study of abnormal behavior and the relationship between diagnosis and treatment strategy. —x: TBA, —y: T. Klein
Prerequisite: BC 1001 or permission of the instructor.
3 points. Tu Th 10:35-11:50

PSY BC 2151x
Organizational Psychology

Introduction to behavior of individuals and small groups in work organizations. Recent theory and research emphasizing both content and research methodology. Motivation and performance, attitudes and job satisfaction, power, influence, authority, leadership, cooperation and conflict, decision-making, and communications. —P. Coleman
Prerequisite: BC 1001. Enrollment limited to 45 students.
3 points. M W 6:10-7:25

PSY BC 2154x
Hormones and Reproductive Behavior

Biological basis of parental and sexual behavior from a comparative perspective. Complex relations among genetic, hormonal, environmental and experiential factors in mediating sexual, parental, emotional, and feeding behavior. Aspects of biology and physiology necessary to understand those behavioral processes are covered in class and are not prerequisites. —TBA.
Prerequisite: BC 1001 or Biology BC 1101, 1102. Enrollment limited to 45 students.
3 points. Hours TBA.

PSY BC 2158x
Human Motivation

Prerequisite: BC 1001.
3 points. Not offered in 1995-96.

PSY BC 2160x
Cognitive Psychology

Selected topics illustrating the methods, findings, and theories of contemporary cognitive psychology. Topics include attention, memory, categorization, perception, and decision making. Special topics include neuropsychology and cognitive neuroscience. —G. Musen
Prerequisite: BC 1001. Enrollment limited to 20 students. Alternate years.
3 points. Tu Th 1:10-2:25

PSY BC 2370y
Psychological Analysis of Racism

Psychological factors influencing the development and expression of racist attitudes and actions, with special reference to black-white relations. Psychodynamic studies of hostility, anger, self-contempt, mechanisms of defense, and other factors that produce and reduce racism. Each student will write an original research paper. —J. Fleming
Prerequisite: PSY BC 1001 and permission of the instructor. Enrollment limited to 20 students.
4 points. W 4:00-6:00 *I*

PSY BC 2371x
Psychology and Women

Selected topics examined from the perspective of different groups of women in western society. Topics include gender differences on cognitive tasks, in personality and attitudes, and the contribution of differential power to gender differences; psychological aspects of some special female experiences (e.g., sexuality, menstruation, etc.)
—L. Braine
Prerequisite: BC 1001 or, for Women's Studies majors, instructor's permission. Enrollment limited to 20 students.
4 points. Tu 2:10-4:00 *I*

UPPER-LEVEL COURSES

PSY BC 3152y
Psychological Aspects of Human Sexuality

A survey and critical evaluation of research investigating psychological, biological, and social factors in human sexual behavior. Topics will include sexuality throughout the life span, sexual dysfunction, and cultural attitudes toward sexuality.
—W. McKenna
Prerequisite: BC 1001 and two other psychology courses or permission of the instructor. Enrollment limited to 30 students. Preference given to seniors. Preregistration.
3 points. M W 1:10-2:25

PSY BC 3155x
Psychology and Law

4 points. Not offered in 1995-96.

PSY BC 3161y
Introduction to the Psychotherapeutic Process

Exploration of concepts intrinsic to the psychotherapeutic process: transference, countertransference, resistance, interpretation, defense analysis. Focus of assessment choice or treatment psychoanalysis/psychotherapy, major treatment modalities (e.g., behavioral, humanistic, interpersonal), the analytic attitude, and therapeutic change. —TBA.
Prerequisites: BC 1001 and any two of the following courses: Personality, Abnormal Psychology, Developmental Psychology, Human Motivation; or permission of the instructor.
3 points. M W 11:00-12:15

PSY BC 3164y
Perception and Language

Prerequisites: BC 1001 and one of the following: BC 1105, BC 1108, BC 1117, BC 1127, BC 1130, or equivalent. Enrollment limited to 20 students. Alternate years.
3 points. Not offered in 1995-96.

PSY BC 3166y
Social Conflict

A survey of the literature on the development of social conflict, the motivations and cognitions of individuals in conflict, and the procedures available for resolving conflict. Particular emphasis will be placed on the psychology of fairness and its implications for conflict resolution. —L. Heuer
Prerequisite: BC 1001 and one additional psychology course, or permission of the instructor. Enrollment limited to 20 students.
4 points. Th 4:10-6:00

PSY BC 3167y
History and Systems of Psychology

Development of the discipline of psychology in the last 100 years, examined in the context of significant events occurring in society and in other disciplines. Discussion of psychology as a profession and of the major schools of thought: Structuralism, Functionalism, Behaviorism, Gestalt, Psychoanalysis, and Cognitive. —L. Braine
Prerequisite: open to juniors and seniors who have had BC 1001 and at least two other courses in psychology.
3 points. Not offered in 1995-96.

PSY BC 3169x
Developmental Psychobiology

A discussion of the inherent and acquired factors in the organization of basic behavioral processes: mechanisms underlying anatomical and functional development of the nervous system, prenatal and postnatal environmental influences on behavior, development of perception and response mechanisms, and analyses of the development of motivated behavior (e.g., feeding, sex, learning). —TBA.
Prerequisites: BC 1001 and two other course in biology or psychology.
3 points. Hours TBA.

PSY BC 3372
Topics in Developmental Psychology

Recent work selected from a broad range of areas: infant behavior, perceptual and cognitive development, family structures, and socialization practices. —Staff
Prerequisites: PSY BC 1001 and two other psychology courses. Enrollment limited to 20 students.
4 points. Hours TBA.

PSY BC 3372x
Comparative Cognition

A study of the thinking and specialized learning ability across human and non-human animal species, including human children. Topics include: the ape language and cognition projects, birds which do "injury feigning" to protect their young, animal tool use and culture, and deception. —C. Ristau
Prerequisites: PSY BC 1001 and two other psychology courses. Enrollment limited to 20 students.
4 points. W 2:10-4:00

PSY BC 3374y
Theories of Learning

Prerequisite: BC 1105 and junior or senior standing. Enrollment limited to 15 students.
4 points. Not offered in 1995-96.

PSY BC 3375y
Organization of Movement

Prerequisites: BC 1001 and one of the following: 1105, 1108, 1117, 1127, 1130, or 1136. Enrollment limited to 20 students.
4 points. Not offered in 1995-96.

PSY BC 3376y
Infant Development

Prerequisites: BC 1001 and BC 1127 or BC 1129. Enrollment limited to 20 students.
4 points. Not offered in 1995-96.

PSY BC 3378x
Females and Males: A Psychobiological Perspective

Prerequisites: BC 1001 and two other psychology courses.
4 points. Not offered in 1995-96.

PSY BC 3379y
Psychology of Stereotyping and Prejudice
Prerequisites: BC 1001 or permission of the instructor. Enrollment limited to 20 students.
4 points. Not offered in 1995-96. I

PSY BC 3380x
Fundamental of Neuropsychology
Exposition of research and theory in cognitive neuroscience through discussion of neuropsychological syndromes, including aphasia, amnesia, dyslexia, Alzheimer's disease, prosapagnosia, and cognitive components of Parkinson's disease, Williams' syndrome. —G. Musen
Prerequisites: BC 1001 or permission of the instructor. Enrollment limited to 20 students.
4 points. Tu 4:10-6:00

PSY W 4107y
Applications of Experimental Psychology
Prerequisite: Learning course and permission of the instructor. Enrollment limited to 15 students. Offered every three years.
3 points. Not offered in 1995-96.

PSY W 4232y
Production and Perception of Language
Review of theories and current research on the process of speech perception. Topics include the acoustic theory of phonetic differentiation, peripheral transduction, auditory and phonetic analysis, word recognition, phrase formation, and the effects of context in perception and production. Special topics include language perception and production in the deaf, perception of metaphor, and automatic speech recognition. —R. Remez
Prerequisites: PSY W 2240, BC 2160, or BC 3164, or permission of the instructor.
4 points. Tu 6:10-8:00

RESEARCH AND FIELD WORK COURSES

PSY BC 3465x, 3466y
Field Work and Research Seminar: The Barnard Toddler Center
The Barnard Toddler Center provides the focus for field work and research in applied developmental psychology, an amalgam of developmental, educational, and clinical psychology. Students assist one morning a week at the Center, make individual class presentations, carry out team research projects, and participate in a two-hour weekly seminar which integrates theory, research, and practice. —T. Klein
Prerequisite: BC 1127 and permission of the instructor. Permission should be requested in the Spring of the year preceding registration. Enrollment limited to 12 students.
4 points. Tu 12:30-2:30

PSY BC 3473y
Field Work Seminar in Psychological Services and Counseling
Supervised field work (minimum of 7 hours per week) applying psychological principles to work and treatment in clinical, educational, medical, and other institutional settings. Seminar discussions of theoretical approaches to clinical problems and case materials. —S. Stingle
Prerequisites: Three psychology courses and permission of the instructor required during program planning the previous Autumn. Enrollment limited to 12 students; seniors given priority.
4 points. Tu 10:00-12:00 plus supervision TBA.

PSY BC 3591x, 3592y
Senior Research Seminar
Discussion and conferences on a research project culminate in a senior thesis. Each project must be supervised by a member of the department. Successful completion of the seminar substitutes for the major examination. —S. Stroessner
Open to senior psychology majors who submit a research proposal which has been approved by the course instructor and the project supervisor.
Prerequisites: BC 1101, a minimum of five other completed psychology courses, and permission of the instructor.
4 points. Tu 4:10-6:00

PSY BC 3599x, 3599y
Individual Projects
Research projects planned in consultation with members of the department. —Staff
Open to majors on written permission of the department member who will supervise the project.
3 or 4 points. Hours TBA.

QUANTITATIVE REASONING

Elliott Hall 854-1317/7172

This program is supervised by the Quantitative Reasoning Committee.

Senior Associate and Director of Computing and Network Systems: Jean Follansbee (Director)

Professor of Economics: Duncan Foley[1]

Associate Professor of Mathematics: David Bayer

Instruction in the Quantitative Reasoning Program is provided by regular members of the Barnard and Columbia College Faculty.

[1]Absent on leave 1995-96.

QUANTITATIVE REASONING REQUIREMENT

All entering students must take the Basic Math Skills test during their first week of matriculation. Students with scores lower than 11 out of 20 must take QUR BC 1001, *Basic Math Skills*, during their first year at Barnard before registering for any of the courses listed on page 33 that satisfy the Quantitative Reasoning Requirement. Basic Math Skills topics are arithmetic (including fractions, decimals, and percentages), exponents and logarithms, equations and graphs, and word problems.

In order to graduate, students must pass one of the courses listed on page 34 in which the major topics are mathematics, methods of empirical analysis using quantitative data, or the use of symbolic manipulation to solve problems. These courses can count both toward a major or distribution requirement and for the Quantitative Reasoning Requirement.

Students may fulfill the Quantitative Reasoning Requirement by securing Advanced Placement or transfer credit for a course listed on page 38 or for an equivalent course. A student who fulfills the Laboratory Science Requirement in Chemistry, Physics, or Astronomy simultaneously satisfies the Quantitative Reasoning Requirement.

COURSES OF INSTRUCTION

Quantitative Reasoning courses assume that students know the basic math skills topics. QR courses introduce students to the use of computers but assume no previous computer experience.

QUR BC 1001x, y
Basic Math Skills

Arithmetic (including fractions, decimals, and percentages), exponents and logarithms, equations and graphs, and word problems. Required for students who score below 11 out of 20 on the Basic Math Skills exam. Open to other students only with permission of the instructor. A student who wishes to select the P/D/F grading option or drop this course must do so by the fifth week of the section in which she is enrolled. —A. Robb

1 point.

x: Sec. 1 Tu Th 9:10-10:25, Sept. 12 - Oct. 31
Sec. 2 Tu Th 6:10-7:25, Oct. 10 - Nov. 28
y: Sec. 1 Tu Th 9:10-10:25, Jan. 23 - Mar. 8
Sec. 2 Tu Th 6:10-7:25, Feb. 27 - Apr. 18

QUR BC 1100x
Confronting Uncertainty: Probability and Statistics in the Real World

Probability and betting on uncertain propositions. Bayes' Theorem and the consistent use of evidence in forming opinions. The statistics of political polling, medical diagnosis and therapeutic research, public policy, and interpersonal relations will be explored using the power of the *Mathematica* programming system. —J. Lad

3 points. M W 11:00-12:15

QUR BC 1110y
Words, Codes, and Cryptograms

An introduction to the mathematics of the computer age by using computers to manipulate textual information. The first unit develops specific programming examples necessary to analyze textual input and output in PASCAL. The second unit focuses on basic concepts and techniques of cryptography, enabling students to design, implement, and analyze secret communications systems. —J. Follansbee, J. Lad

3 points. Tu Th 10:35-11:50

RELIGION

219 Milbank Hall 854-2597

Professors: Randall Balmer (Chair), John Stratton Hawley, Alan Segal[2]

Assistant Professors: Elizabeth Castelli, Judith Weisenfeld, Angela Zito

Adjunct Associate Professor: Celia Deutsch

Instructor: Terry Todd

Other officers of the University offering courses listed below:

Professors: Peter Awn, Gillian Lindt, Wayne L. Proudfoot, Robert Somerville, Robert A. F. Thurman[3], David Weiss-Halivni[2]

Assistant Professors: Ryuichi Abe, Alexander Alexakis[1], Matthew Kapstein, Gurinder Singh Mann[2], Susan Shapiro

[1]Absent on leave Autumn term
[2]Absent on leave Spring term
[3]Absent on leave 1995-96

Approaches to the study of religion are as diverse as the world's religious traditions themselves. The student of religion encounters men and women—and our courses give explicit attention to both genders—as they explore the boundaries of their perceptions of the real. The challenge of this encounter inspires our involvement in the academic study of religion, even as it leads us to examine and question the boundaries of our world views.

The inquiry into religious theory, practice, and institutional life demands a variety of methodological tools in addition to an integrating framework. The program in religion sponsored by the Departments of Religion of Barnard College and Columbia College offers a unique context and extensive resources for this interdisciplinary study. The areas of expertise of the religion faculty (philology and the interpretation of texts, philosophy of religion, sociology and anthropology of religion, the history of specific religious traditions, comparative religion) provide the prospective student with a clear picture of the range of specialization available.

Moreover, the larger University community provides training in a broad spectrum of disciplines related to the study of religion: the social sciences, humanities, arts, and the professions. Specialized area studies programs and institutes—Middle East, Southern Asia, East Asia, etc.—explore in depth the linguistic, literary, and sociocultural milieus of a particular Eastern or Western religious tradition. Barnard and Columbia offer intensive training in the languages of the major religious traditions of the world: Arabic, Chinese, Greek, Hebrew, Japanese, Latin, Persian, Sanskrit and other Indic languages, Tibetan, among others. Students are encouraged to take full advantage of these and other opportunities available throughout the University.

The Jewish Theological Seminary of America and Union Theological Seminary are located near the campus. Students are encouraged to use the resources they offer, including their world-renowned libraries.

All courses, except those limited to majors, satisfy the College's distribution requirements in the Humanities.

DEGREE REQUIREMENTS

FOR THE MAJOR

Program of study: To be planned with the departmental adviser, taking into account the educational aims of the student. A religion major is expected to acquire knowledge of at least three sorts: (i) an acquaintaince with the linguistic, social-scientific, historical, and philosophical theories and methods that concern the study of religion; (ii) an in-depth knowledge of one religious tradition; and (iii) a critical, comparative understanding of the broad range of the world's religious phenomena, requiring some familiarity with all of the major world religions.

Courses: for the major, 10 courses in religion (for a minimum of 30 points) are required:

(i) Religion V 1001, *Introduction to the Study of Religion* (in exceptional cases Religion V 1101 or Religion V 1102, *Introduction to the Study of Western Religion* and *Introduction to the Study of Eastern Religion*, may be substituted at the discretion of the student's departmental adviser).

(ii) Two survey courses in the major religious traditions, one Western, one non-Western—V 2600 *Hinduism*, V 2607 *Buddhism: Indo-Tibetan*, V 2608 *Buddhism: East Asian*, V 2610 *Christianity*, V 2620 *Judaism*, V 2630 *Islam*, and V 2640 *Chinese Religious Traditions*.

(iii) Three intermediate courses in the study of religion, with two chosen in the tradition of main concentration; the third course must be from a substantially different tradition or area. Where appropriate, selected courses offered in other departments may be applied toward the fulfillment of this requirement, subject to the approval of the religion adviser.

(iv) The Junior Majors' Colloquium, Religion V 3799. Religion majors planning to study abroad in their junior year are strongly advised to take the required Junior Colloquium in their sophmore year.

(v) Any advanced departmental seminar.

(vi) The Senior Majors' Colloquium, V 3800, *Critical Issues in the Modern Study of Religion.*

(vii) A Senior Essay prepared in consultation with a member of the department; the essay may be written in connection with Religion V 3901-3902 *Guided Reading and Research* and is taken into consideration when making recommendations to the Faculty Committee on Honors.

It is strongly recommended that majors, especially those considering graduate work in religion, pursue the study of the language of one religious tradition in addition to fulfilling the College language requirement.

For a Minor in Religion

Program of Study: to be planned with the departmental representative, taking into account the educational aims of the student.

Courses: For the minor five courses are required, including:

(i) Religion V 1001, *Introduction to the Study of Religion*; Religion V 1101, *Introduction to the Study of Western Religion*, or Religion V 1102, *Introduction to the Study of Eastern Religion.*

(ii) Two survey courses in the major religious traditions, with a Western/non-Western distribution.

(iii) One departmental seminar or colloquium.

Note: A grade of C- or above is required for credit of major or minor requirements.

COURSES OF INSTRUCTION

For courses offered by other departments and the Graduate School of Arts and Sciences that bear upon the study of religion, students are urged to consult the appropriate bulletin. Some graduate courses are open to qualified undergraduates with the permission of the instructor.

INTRODUCTORY COURSES

REL V 1001x
Introduction to the Study of Religion

Introduction to theory and practice of religion, East and West: e.g., myth and ritual, reason and revelation, law and community, mysticism and religious organization. —G. Mann, T. Todd

3 points. M W 11:00-12:15 *I H*

REL V 1101y
Introduction to the Study of Western Religion

The phenomenology of religious experience and the historical forms of religious life. The presuppositions, data, and documents of the religions of the West. —C. Deutsch

3 points. M W 4:10-5:25 *I H*

REL V 1102x
Introduction to the Study of Eastern Religion
The phenomenology of religious experience and the historical forms of religious life. The presuppositions, data, and documents of the religions of the East. —R. Abe, J. Hawley
3 points. Tu Th 2:40-3:55 *I H*

THE TRADITIONS

REL V 2600y
Hinduism
Central themes in Hinduism in their relation to Indian culture. Readings include original sources in translation. Visual material emphasized. —J. Hawley
3 points. Tu Th 2:40-3:55 *II H*

REL V 2640x
Chinese Religious Traditions
The Chinese word for "religion" is "teaching." We explore what Chinese people taught themselves about the person, the society, and the natural world. Covers classic texts of Taoist and Confucian canon and their synthesis; Mahayana Buddhism; folk religion and its relation to the state; and the modern cult of Maoism. —A. Zito
3 points. M W 11:10-12:15 *II H*

REL V 2607x
Buddhism: Indo-Tibetan
3 points. Not offered in 1995-96. *II H*

REL V 2608y
Buddhism: East Asian
An introductory survey that studies East Asian Buddhism as an integral, living religious tradition. Emphasis is placed on the reading of original treatises in translation. Historical events are discussed in terms of their relevance to contemporary problems confronted by Buddhism. —R. Abe
3 points. Tu Th 4:10-5:25 *II H*

REL V 2610x
Christianity
Survey of the history of Christianity and of the social and ethical tensions which have informed its development. —R. Somerville
3 points. Tu Th 11:00-12:15 *III H*

REL V 2620x
Judaism
Historical overview of Jewish belief and practice as these have crystallized and changed over the centuries. Special attention to ritual and worship, forms of religious literature, central concepts, religious leadership and institutions, and Israel among nations. —A. Segal
3 points. M W 11:00-12:15 *II H*

Islamic-Religion ISR V 2630y
Islam
Survey of Islamic institutions, ideas, and spirituality, their origin and development in formative and classical periods, and their continued evolution in a variety of cultural settings. —P. Awn
3 points. Tu Th 4:10-5:25 *II H*

ADVANCED COURSES, BY REGION OR TRADITION

American Religions

REL V 3502x, 3503y
The History of Religion in America
A survey of American religion from colonization to the present, with an emphasis on the ways religion has shaped American history, culture, and identity. V 3502x: from colonization to the Civil War; V 3503y: from the Civil War to the present. —R. Balmer
3 points. Tu Th 10:35-11:50 *I H*

Religion-Sociology RSC V 3508x
Religious Cults in Contemporary American Society
3 points. Not offered in 1995-96. *III H*

PAS BC 3003y
Introduction to African-American History and Culture
3 points. Not offered in 1995-96. *III H*

REL V 3755x
African-American Religion
Survey of the history of religion among Americans of African descent from slavery to the present. Major topics to be covered include the African background and the transmission of African cultures, religion under slavery, independent black churches, religion and race relations, and modern theological movements. —J. Weisenfeld
3 points. M W 1:10-2:25 *III H*

Ancient Mediterranean Religion

REL V 3240y
Graeco-Roman Religion
Survey of religions of Rome and the Hellenistic East from the late 4th century B.C.E. to the early 4th century C.E., with special attention to selected local religious phenomena. —E. Castelli
3 points. Tu Th 2:40-3:55 *III H*

REL V 3412y
Gnosticism
Investigation of recently discovered gnostic texts, and discussion of their historical importance. —E. Castelli
3 points. Tu Th 10:35-11:50 *II H*

Buddhism

REL V 3000y
Buddhist Ethics
3 points. Not offered in 1995-96. *II H*

REL V 2601y
Philosophies of India
3 points. Not offered in 1995-96. *II H*

Chinese and Japanese Religion

REL V 3603y
Taoism
Historical introduction to Chinese Taoism; development of thought and literature (i.e., the Tao Te Ching and Chuang Tzu); meditation and alchemy; translations of doctrine into folk belief and ritual; examination of contemporary study and practice. —A. Zito
3 points. M W 11:00-12:15 *II H*

Asian Humanities W 4027x, 4028y
Colloquium on Major Works of Chinese Philosophy, Religion, and Literature
—W.T. deBary, I. Bloom
4 points. W 11:00-12:50 *II H*

REL V 3613x
Japanese Religious Tradition
3 points. Not offered in 1995-96. *II H*

REL V 3804y Sec. 52
Body, Gender, and Belief in China
Examines the image of family and the position of women in the classics; factors in ritualist and Taoist notions of the body; discusses changes in the ideology of filiality over time. In workshops students will discuss their interpretations of primary sources. —A. Zito
4 points. Tu 4:10-6:00 *II H*

Christianity

REL V 3202x
Introduction to the New Testament
Critical study of the formation of the New Testament canon and the communities which produced it. —E. Castelli
3 points. Tu Th 2:40-3:55 *III H*

REL V 3402y
Early Christianity
Emergence of early Christian communities and thought; Jesus of Nazareth; Paul; the Apostolic Age; political clash with Rome; paganism and the mystery religions; dialectic of orthodox and heretical thought to Augustine. —E. Castelli
3 points. Tu Th 4:10-5:25 *III H*

REL V 3418y
Orthodox Christianity
A survey of Orthodox Byzantine Christianity from the early period (4th c.) to the fall of Constantinople in 1453. Examines those characteristics that distinguish Orthodox Byzantine Christianity from other Christian denominations and other aspects of this faith such as Orthodox Dogma, Tradition, Byzantine Church and State, and Byzantine Church institutions. —A. Alexakis
3 points. M W 2:40-3:55 *III H*

REL V 3501x
18th- and 19th-Century Religious Thought: Religion and Its Critics
Relationship between religion and culture; theories of religious development (personal, social, cultural). Hume, Edwards, Lessing, Rousseau, Kant, Hegel, Schleiermacher, Coleridge, Bushnell, Emerson, and others. —W. Proudfoot
3 points. M W 11:00-12:15 *III H*

REL V 3530y
The History of the Papacy
A survey of the history of the papacy from its origins to the 16th-century Reformation. —R. Somerville
3 points. Tu Th 11:00-12:15 *III H*

REL V 3804y Sec. 50
Supernatural Events in Byzantine Hagiography
Investigates Byzantine perceptions of magic, demonology, and miraculous acts as they appear in English translations of Byzantine saints' lives. —A. Alexakis
4 points. Th 4:10-6:00 *III H*

REL V 3450y
From Soul to Self: The Reformation and the Birth of Modernity
Examines the rupture between medieval Catholic theology and the Reformation, as well as the continuities between the two. The paradoxical development of a heightened sense of individuality arises from the Reformation's insistence on, and distrust of, the sinful self. Readings in Calvin, Luther, Beza, Foxe, Bunyan. How did the crucible of the early modern era forge the concepts of the self as preeminent over that of the soul? —C. Randall
Prerequisite: REL V 2610, V 3202, or permission of the instructor.
4 points. Tu 2:10-4:00 *III H*

Indian Religions

REL V 3590x
Jainism
3 points. Not offered in 1995-96. *II H*

REL V 3605y
Sikhism
3 points. Not offered in 1995-96. *II H*

History-Religion HIR V 3820y
Religion and Society in Modern India
Seminar in selected topics illustrating the mutual involvement of religion and society in India since the 16th century: Hindu devotional movements, Hindu reform movements, Islamic self-definition, religious minorities, recent trends. —J. Hawley
4 points. Th 11:00-12:50 *II H*

Asian Studies-Religion ASR V 3974y
Hindu Goddesses
—R. McDermott
Prerequisite : One course in Indian culture or religion, or permission of the instructor.
4 points. W 4:10-6:00 *II H*

REL V 3803x Sec.14
Krishna
The study of a single deity in the Hindu pantheon as illuminated in art, music, dance, drama, theological treatises, patterns of ritual, and texts both classic and modern. Special attention to Krishna's consort Radha, to Krishna's reception in the West, and to his portrayal on Indian television. —J. Hawley
4 points. Th 11:00-12:50 *II H*

ISLAM

see WMS V 3505x
Women, Islam and Nationalism in the Middle East
—A. Najmabadi
3 points. Tu Th 4:10-6:00 *II H*

REL V 3635x
History of Sufism
3 points. Not offered in 1995-96. *II H*

Islamic-Religion ISR W 4300x
Islam in India
3 points. Not offered in 1995-96. *II H*

REL V 3803x Sec. 36
Seminar on Classical Sufi Texts
—P. Awn
4 points. Th 2:10-4:00. *II H*

JUDAISM

REL V 3201x
Introduction to the Hebrew Bible
Introduction to the literature of ancient Israel against the background of the ancient Near East. —A. Segal
3 points. Tu Th 10:35-11:50 *II H*

REL V 3210y
Judaism during the Time of Jesus
3 points. Not offered in 1995-96. *II H*

REL V 3214y
Introduction to Talmudic and Geonic Literature
3 points. Not offered in 1995-96. *III H*

REL V 3310x
Peshat and Derash in the Jewish Tradition
The history of rabbinic interpretation throughout the ages, distinguising between Biblical exegesis and Talmudic exegesis with some reference to both Dead Sea Scrolls and early Christian Biblical expositions. —D. Weiss-Halivni
3 points. M W 2:40-3:55 *III H*

REL V 3315y
Law and Lore (Halakha and Aggadah) in the Jewish Tradition
3 points. Not offered in 1995-96. *III H*

REL V 3330x
The Beginnings of Jewish Mysticism
3 points. Not offered in 1995-96. *III H*

REL V 3338x
Jewish Ethics
3 points. Not offered in 1995-96. *III H*

REL V 3349x
Jewish Family Law
3 points. Not offered in 1995-96. *III H*

REL 3352y
Issues in Modern Jewish Thought
—S. Shapiro
3 points. Tu Th 10:35-11:50 *III H*

REL 3355x
Development of the Jewish Holidays
3 points. Not offered in 1995-96. *III H*

REL V 3360x
Jewish Liturgy
3 points. Not offered in 1995-96. *III H*

REL V 3804y Sec. 54
Women, Gender, and Judaism
Examines the ways in which the categories of "woman/women" and "gender" differently construe the character of Judaism. "Judaism" is here understood as both a religious tradition and a cultural/social system. —S. Shapiro
4 points. W 11:00-12:50 *III H*

ADVANCED COURSES: COMPARATIVE STUDIES

Asian Studies-Humanities AHU V 3400x, y
Colloquium on Major Texts
—P. Anderer, I. Bloom, P. Cachia, W.T. deBary, R. McDermott, P. Rouzer
4 points. Hours (See Asian Studies) *I H*

Asian Studies-Religion ASR V 3772x
Perspectives on Evil and Suffering in World Religions
—R. McDermott
3 points. Not offered in 1995-96. *I H*

REL V 3405x
Religion and Art: Icons and Iconoclasts
3 points. Not offered in 1995-96. *I H*

REL V 3407y
Mysticism
An examination of primary texts from various traditions in light of contemporary theories of mysticism, addressing issues such as gender and authority. —C. Deutsch
3 points. M W 4:10-5:25 *I H*

REL V 3513x
Philosophy of Religion
3 points. Not offered in 1995-96. *I H*

REL V 3700y
Women and Religion
3 points. Not offered in 1995-96. *I H*

Religion-Sociology RSC V 3720y
Sociology of Religion
3 points. Not offered in 1995-96. *I S*

REL V 3730y
Nonviolence in the Modern World
3 points. Not offered in 1995-96. *I H*

REL V 3780y
Religion and Social Constructions of Race
Examination of the influence of racial stratification on the religious experience of blacks and whites in the United States and South Africa. Topics include theological justification of slavery and apartheid and black resistance to racial domination through religious means. —J. Weisenfeld
3 points. M W 11:00-12:15 *I H*

REL V 3799y
Juniors' Colloquium
An introduction to the comparative study of religion focusing on dominant approaches to the conceptualization, interpretation, and explanation of religious phenomena and on key issues relating to the methodologies appropriate to such investigations. *Required of religion majors in their junior year.*
—W. Proudfoot
4 points. W 4:10-6:00 *I H*

REL V 3800x
Majors' Colloquium
Critical issues in the modern study of religion. Topic: Cultural constructions of the body: embodiment in its Chinese and Mediterranean contexts. A study of how cosmological metaphors shape social forms through bodily experience. —A. Zito
Required for all senior majors.
Open to non-majors.
4 points. Sec. 1 W 4:10-6:00.
Sec. 2 Th 4:10-6:00 *I H*

REL V 3804y Sec. 37
Black Women's Religious Experiences
An examination of the religious experiences of black women through case studies of women in Africa, the Caribbean, Latin America, and the United States. Particular attention will be paid to the experiences of African-American women in both institutional and non-institutional arenas.
—J. Weisenfeld.
4 points. Tu 2:10-4:00 *I H*

REL V 3804y Sec. 51
Interpreting Asian Philosophies
The major Asian philosophical traditions challenge and call into question the prospects for cross-cultural understanding. These prospects will be considered here with reference to the writings of leading contemporary interpreters of Indian and Chinese thought. —M. Kapstein
4 points. M 11:00-12:50 *I H*

SLAVIC

226 Milbank Hall 854-5417

Professors: Richard F. Gustafson (Chair), Marina Ledkovsky

Assistant Professor: Catharine Nepomnyashchy

Senior Associate: Mara Kashper

Other officers of the University offering courses in Slavic:

Professors: Robert L. Belknap, Boris Gasparov, Robert A. Maguire

Associate Professors: Frank Miller, Cathy Popkin, Irina Reyfman

Adjunct Associate Professor: Myroslava Znayenko

Adjunct Assistant Professors: Anna Frajlich-Zajac, Peter Kussi, Yuriy Tarnawsky

Lecturers: Alla Arsenian, Valentina Lebedev

The Slavic Department at Barnard offers instruction in five Slavic languages and literatures, with special emphasis on Russian. The department insists upon a strong foundation in language study, because this best prepares students for future graduate study in literature, history, economics, or political science, as well as for careers in government, business, journalism, or international law.

The department offers a major and minor program in Russian, and for this purpose has an extensive array of courses designed to help the student obtain reasonable fluency in the spoken and written language, a reading ability adequate for interpreting texts of some difficulty, and a general knowledge of Russian literature and culture, especially of the nineteenth and twentieth centuries.

Foreign Language Requirement for the degree: satisfactory completion of the second semester of the intermediate level course or any course above that level. Entering students should see Professor Frank Miller (708 Hamilton, 854-3941) for a placement examination: a sufficiently high grade will automatically fulfill the requirement; others will be placed accordingly. Students who speak a Slavic language natively should consult with the department chair.

REQUIREMENTS FOR THE RUSSIAN MAJOR

Students must have completed two years of college Russian before entering the program. Prospective majors or minors should consult with Professor Gustafson as early as possible.

A total of 11 courses are required for the major:

Usually taken in the second year:

Russian V 3220	*Nineteenth-Century Russian Literature*
Russian V 3221	*Twentieth-Century Russian Literature*

Usually taken in the third year:

Russian V 3331-V 3332	*Advanced Russian*
Russian V 3333-V 3334	*Introduction to Russian Literature*

Usually taken in the fourth year:

Russian V 3443-V 3444	*Fourth-Year Russian*
Russian V 3595	*Senior Seminar*

Two electives in literature.

Independent study with any of the faculty at Barnard and Columbia can usually be arranged, and study in Russia is possible as part of the major.

REQUIREMENTS FOR THE RUSSIAN MINOR

A total of five courses beyond the second year of Russian are required for the minor. No courses in translation count toward the minor.

COURSES OF INSTRUCTION

RUSSIAN LANGUAGE

RUS V 1101x-RUS V 1102y
Elementary Russian

Grammar, reading, composition, and conversation. —Instructors TBA.
Required: V1501- V1502. Homework includes listening to tapes available in the language laboratory. No credit is given for V 1101 unless V 1102 is satisfactorily completed. Enrollment limited. Students must sign up in Columbia Slavic Department (HAM 708) prior to first class. Department permission is required.
4 points. Sec. 1 M Tu W Th F 9:00
Sec. 2 M Tu W Th F 10:00
Sec. 3 M Tu W Th F 11:00

RUS V 1101y
Elementary Russian

Equivalent to V 1101x, but given in Spring term. —Instructor TBA.
4 points. M Tu W Th F 10:00

RUS V 1102x
Elementary Russian

Equivalent to V 1102y, but given in Autumn term. —Instructor TBA
Prerequisite: V 1101 or the equivalent.
4 points. M Tu W Th F 10:00

RUS V 1501x-RUS V 1502y
Elementary Russian Grammar Lecture

Required weekly grammar lecture for Courses V 1101-V 1102. —Instructor TBA
1 point. Th 12:00-12:50 or Th 2:30-3:20

RUS V 1501y
Elementary Russian Grammar Lecture

Equivalent to V 1501x, but given in Spring term. —Instructor TBA.
1 point. Hours TBA.

RUS V 1502x
Elementary Russian Grammar Lecture

Equivalent to V 1502y, but given in Autumn term. —Instructor TBA.
1 point. Hours TBA.

RUS V 1201x-RUS V 1202y
Intermediate Russian

Reading, composition, grammar review. —V. Lebedev, A. Arsenian
Prerequisite: V 1102 or the equivalent. Enrollment limited. Students must sign up in Columbia Slavic Department (HAM 708) prior to first class. Department permission required.
4 points. Sec. 1 M Tu W Th F 12:00
Sec. 2 M Tu W Th F 1:10

RUS V 1201y
Intermediate Russian

Equivalent to V 1201x, but given in Spring term. —Instructor TBA.
Prerequisite: V 1102 or the equivalent.
4 points. M Tu W Th F 10:00

RUS V 1202x
Intermediate Russian

Equivalent to V 1202y, but given in Autumn term. —Instructor TBA.
Prerequisite: V 1201 or the equivalent.
4 points. M T W Th F 10:00

RUS V 3331x, RUS V 3332y
Advanced Russian

Emphasis on conversation and composition; reading and discussion of selected texts and videotapes; lectures, papers, and oral reports. Conducted entirely in Russian. —M. Kashper, V. Lebedev
Prerequisite: Two years of college Russian and permission of the instructor. Enrollment limited. Students must sign up in Columbia Slavic Department (HAM 708) prior to first class.
4 points. Sec. 1 M Tu W Th F 12:00 (Autumn only)
Sec. 2 M Tu W Th F 1:10

RUS V 3421x
Russian Phonetics and Intonation

Review of principles of phonetics and intonation for advanced students. Intense drill for the development of correct speech habits. Attention to expressive reading and poetry recitation. Conducted entirely in Russian. —M. Kashper
Prerequisite: Three years of college Russian and permission of the instructor.
2 points. Tu Th 11:00-11:50

RUS V 3443x, RUS V 3444y
Fourth-Year Russian

Reading and discussion of selected texts from 20th-century Russian literature. Discussion of different styles and levels of language, including word usage and idiomatic expression. Written exercises, translations into Russian, composition, and oral reports. —M. Kashper
Prerequisite: Three years of college Russian and permission of the instructor. The second term may be taken without the first.
4 points. M W F 10:35-11:50

RUS W 4432x
Contrastive Phonetics and Grammar of Russian and English

4 points. Not offered in 1995-96.

RUS W 4433x
Specific Problems in Mastering Russian
The Russian verb (basic stem system, aspect, locomotion); prefixes; temporal, spatial, and causal relationships; word order; word formation. —F. Miller
Prerequisite: Four years of college Russian and permission of the instructor.
4 points. Tu Th 2:40-3:55, and two hours TBA.

RUS W 4434x, W 4435y
Advanced Composition: The Writing of Expository Prose
Practice in the varieties of critical writing. Development of vocabulary and syntactic structures appropriate for abstract discourse. Conducted entirely in Russian. —M. Ledkovsky
Prerequisite: Four years of college Russian and permission of the instructor.
3 points. Tu Th 10:35-11:50

RUS W 4910y
Literary Translation
A workshop in literary translation from Russian into English focusing on the practical problems of the craft. Students will spend the bulk of the semester working on the translation of a literary text and discussing their work in class. —C. Nepomnyashchy
Prerequisite: Four years of college Russian and permission of the instructor.
3 points. Tu Th 1:10-2:25

RUSSIAN LITERATURE

RUS V 3333x - V 3334y
Introduction to Russian Literature
A close study in the original of representative works of Russian literature from Pushkin to Solzhenitsyn. —I. Reyfman
Prerequisite: Grade of B- or better in RUS V 1202 or permission of the instructor. For non-native speakers of Russian.
3 points. M W F 12:00-12:50 *III H*

RUS V 3339y
Masterpieces of Russian Literature: 19th Century
A close study in the original of representative works by Pushkin, Lermontov, Gogol, Turgenev, Ostrovsky, Tolstoy, Dostoevsky, Leskov, and Chekhov. —M. Kashper
Prerequisite: Native or near-native knowledge of Russian and permission of the instructor.
3 points. M W 1:10-2:25 *III H*

RUS V 3340y
Masterpieces of Russian Literature: 20th Century
3 points. Not offered in 1995-96. *III H*

RUS V 3461
Pushkin
3 points. Not offered in 1995-96. *III H*

RUS V 3462
Gogol
3 points. Not offered in 1995-96. *III H*

RUS V 3463
Tolstoy
3 points. Not offered in 1995-96. *III H*

RUS V 3464y
Dostoevsky
A close study, in the original, of one major novel, with emphasis on linguistic and literary analysis. —R. Belknap
Prerequisite: Three years of college Russian and permission of the instructor.
3 points. M W 2:40-3:55 *H*

RUS V 3465x
Russian Poetry of the 19th and 20th Centuries
A close study, in the original, of selected texts from representative lyric poets: Tiutchev, Fet, Blok, Tsvetaeva, and Brodsky. Attention given to metrics, formal analysis of style and structure, and the relationship to literary and philosophical movements. —R. Gustafson
Prerequisite: Three years of college Russian and permission of the instructor.
3 points. M W 1:10-2:25 *III H*

RUS V 3466
Chekhov
3 points. Not offered in 1995-96. *H*

RUS V 3467
Twentieth-Century Prose Writers
3 points. Not offered in 1995-96. *III H*

RUS V 3595x
Senior Seminar
Topic: Russian cultural and literary myths. Class reports culminating in a critical paper. —I. Reyfman
Prerequisite: Major status or permission of the instructor.
4 points. W 4:10-6:00

RUS V 3596x, y
Supervised Individual Research
Supervised individual research culminating in a critical paper. —Staff
Open to senior majors, and permission of the instructor is required.
4 points. Hours TBA.

RUSSIAN LITERATURE IN TRANSLATION

RUS V 3220x
Nineteenth-Century Prose
The development of prose forms from Pushkin to Chekhov, including works by Lermontov, Gogol, Turgenev, Dostoevsky, and Tolstoy. —C. Nepomnyashchy
A knowledge of Russian is not required.
3 points. Tu Th 10:35-11:50 *III H*

RUS V 3221y
Twentieth-Century Prose
Russian prose fiction from Symbolism to the present: including works by Bunin, Gorky, Bely, Zamyatin, Babel, Zoshchenko, Olesha, Bulgakov, Platonov, Nabokov, Pasternak, Solzhenitsyn, and Trifonov. —C. Popkin
A knowledge of Russian is not required.
3 points. Tu Th 10:35-11:50 *III H*

RUS V 3222y
Tolstoy and Dostoevsky
Major works of the two writers. —R. Gustafson
A knowledge of Russian is not required.
3 points. M W 1:10-2:25 *III H*

RUS V 3224
Introduction to Russian Culture
3 points. Not offered in 1995-96. *III*

RUS V 3225
Russian Women: Myth and Reality
3 points. Not offered in 1995-96. *III*

RUS V 3226
Russian Culture: The Soviet Experience and Beyond
3 points. Not offered in 1995-96.

RUS V 3227
Ethnicity in Russian Literature
3 points. Not offered in 1995-96. *I H*

RUS W 4006y
Modern Russian Religious Thought
The concepts of God, man, nature, history, and culture. Readings from Chaadayev, Khomyakov, Solovyov, Fyodorov, Florensky, Bulgakov, Berdyaev, Shestov, Lossky, Frank, and others. The relationship to Eastern Christian thought and Western philosophy. —R. Gustafson
Knowledge of Russian is not required.
3 points. M W 11:00-12:15 *III H*

RUS W 4015x
Russian Drama from Pushkin to Chekhov
Readings of selected 19th-century texts. Some attention to theatrical background. Departmental students required to read in Russian. —R. Belknap
3 points. M W 6:10-7:25

RUS W 4034x
Literature, Politics, and Tradition After Socialist Realism
The major writers and trends in Soviet Russian literature since the death of Stalin. Emphasis on the rethinking of the role of literature in society and on formal experimentation engendered by relaxation of political controls over literature from the post-Stalin period through the era of *glasnost*. —C. Nepomnyashchy
3 points. Tu Th 1:10-2:25

CZECH LANGUAGE AND LITERATURE

Czech W 1101x -W 1102y
Elementary Czech
Essentials of the spoken and written language. Prepares students to read texts of moderate difficulty by the end of the first year.
—Instructor TBA.
4 points. M Tu Th 6:10-7:25

Czech W 1201x -W 1202y
Intermediate Czech
Rapid review of grammar. Readings in contemporary fiction and nonfiction, depending upon the interests of individual students. —P. Kussi
Prerequisites: Czech W 1102 or the equivalent.
4 points. M Tu Th 2:40-3:55

Czech W 3333x
Readings in Czech Literature, I
Extensive readings in Czech literature in the original, with emphasis depending upon the needs of individual students. —P. Kussi
Prerequisite: Czech W 1202 or the equivalent.
3 points. Tu Th 1:10-2:25

Czech W 3998x, y
Supervised Individual Research
—Staff
2-4 points. Hours TBA.

Comparative Literature-Czech W 4030
Post-war Czech Literature
3 points. Not offered in 1995-96. *III H*

Comparative Literature-Czech W 4035y
The Writers of Prague

A survey of the Czech, German, and German-Jewish literary cultures of Prague from 1910 to 1930. Special attention to Hasek, Capek, Kafka, Werfel, and Rilke. Readings in English. —P. Kussi
3 points. Tu Th 1:10-2:25

POLISH LANGUAGE AND LITERATURE

Polish W 1101x-W 1102y
Elementary Polish

Essentials of the spoken and written language. Prepares students to read texts of moderate difficulty by the end of the first year. —A. Frajlich-Zajac and Staff
4 points. M W 4:10-5:25 and F 1:10-2:25

Polish W 1201x-W 1202y
Intermediate Polish

Rapid review of grammar; readings in contemporary nonfiction and fiction, depending on the interests of individual students. —A. Frajlich-Zajac and Staff
Prerequisite: Polish W 1102 or the equivalent.
4 points. M W F 2:40-3:55

Polish W 3101x-W 3102y
Advanced Polish

Extensive readings from 19th- and 20th-century texts in the original. Both fiction and nonfiction, with emphasis depending on the interests and needs of individual students. —A. Frajlich-Zajac and Staff
Prerequisite: Polish W 1202 or the equivalent.
4 points. M W F 11:00-12:15

Polish W 3998x, y
Supervised Individual Research

—Staff
2-4 points. Hours TBA. *H*

Polish W 4048y
Masterpieces of 19th-Century Polish Poetry

Analysis of the major works of the 19th-century poets, including Mickiewicz, Slowacki, Krasinski, Fredro, and Norwid. Parallel reading lists for readers and non-readers of Polish; students with sufficient knowledge of the language are required to read in the original. —A. Frajlich-Zajac
3 points. Tu Th 2:40-3:55 *H*

Polish G 4050
Contemporary Polish Poetry

3 points. Not offered in 1995-96. *H*

SERBO-CROATIAN LANGUAGE AND LITERATURE

Serbo-Croatian W 1101x-W 1102y
Elementary Serbo-Croatian

Essentials of the spoken and written language. Prepares students to read texts of moderate difficulty by the end of the first year. —Instructor TBA.
4 points. M Tu Th 6:10-7:25

Serbo-Croatian W 3333x-W 3334y
Readings in Serbo-Croation Literature

Readings in Serbo-Croation literature in the original, with emphasis depending upon the needs of individual students. —Instructor TBA.
Prerequisite: Serbo-Croatian W 1102 or the equivalent.
3 points. Tu Th 4:10-5:25

Serbo-Croatian W 3998x or y
Supervised Individual Research

—Staff
2-4 points. Hours TBA.

UKRAINIAN LANGUAGE AND LITERATURE

Ukrainian W 1101x-W 1102y
Elementary Ukrainian

A basic course for students with little or no knowledge of Ukrainian: essentials of grammar, basic oral expression, with emphasis on drills, reading, writing, and listening comprehension. Reading of simple texts, discussion of readings in Ukrainian. Conducted increasingly in Ukrainian. —M. Znayenko
3 points. M W 6:10-7:25

Ukrainian W 1201x-W 1202y
Intermediate Ukrainian

Intensive rapid review of grammar, with some emphasis on conversational skills. Strong emphasis on reading/translating skills, using selections from contemporary Ukrainian periodicals. —Instructor TBA.
Prerequisite: Ukrainian W 1102 or the equivalent.
3 points. M W 4:10-5:25

Ukrainian W 3998x, y
Supervised Individual Research

—Staff
2-4 points. Hours TBA. *H*

Ukrainian W 4040x
Twentieth-Century Ukrainian Prose
A survey of the major works from the turn of the century through the 1990s, with a brief overview of 19th-century Ukrainian prose and its connection to later developments. —Y. Tarnawsky
Prerequisite: Reading knowledge of Ukrainian or fluency in another Slavic language.
3 points. Tu Th 2:40-3:55

Ukrainian W 4050y
Contemporary Ukrainian Poetry
A survey of the main movements in Ukrainian poetry, both in Ukraine and in the diaspora, since the 1950s, in the context of Ukrainian and world literatures. Lectures in English with some texts in Ukrainian. —Y. Tarnawsky
Prerequisite: Reading knowledge of Ukrainian or fluency in another Slavic language.
3 points. Tu Th 2:40-3:55

SOCIOLOGY

410E Milbank Hall 854-3577

Professor: Jonathan Rieder[1]

Assistant Professors: Lynn Chancer (Acting Chair), Kelly Moore, Robert Smith

Adjunct Professors: Nathalie Friedman, Theresa Rogers

Other officers of the University offering courses listed below:

Professor: Eugene Litwak

Associate Professor: Hiroshi Ishida

Assistant Professors: John T. Hartman, R. Freeland, Martina Morris, Kathy Neckerman, Jeffrey Olick, P. Reed (Adjunct)

[1]Absent on leave 1995-96.

Sociology aims to uncover the theoretical principles that illuminate social life. In pursuing this goal, sociology exhibits a diversity of perspectives. This pluralism is one source of the discipline's vitality. Some scholars reach out to the sciences for their model of sociological inquiry; others look to more humanistic and historical endeavors for their inspiration and identity. But in all its different forms, the discipline as a whole strives to develop rigorous methods, both qualitative and quantitative, for analyzing social life.

Sociology involves more than the accumulation of theory and method for its own sake. Perhaps above all else, sociology is devoted to the exploration of actual social life in all its variousness. Thus it is that sociology majors examine the dynamic processes through which human beings express their social being: cooperation, conflict, power, exchange, morality, symbolism, domination, dependency, deviance, social control, and violence. Students also study the forms to which these processes give rise: social networks, small groups, face-to-face interaction, subcultures, families, gender divisions, religion, popular and high culture, social class, structures of race and ethnicity, bureaucracy, social movements, professions, and the state. The Barnard Department of Sociology tends to focus on these forms and processes as they unfold in the United States. At the same time, we seek to guard against provincialism by grounding our analyses comparatively and exploring the social life of less developed, developing, and other mature industrial societies.

There are no special admissions requirements or procedures. Students (majors and nonmajors) are encouraged to consult with members of the department regarding their choice and sequence of courses. Combined and double majors may be arranged. In addition, the Columbia department offers a wide variety of sociology courses which are open to interested Barnard students.

REQUIREMENTS FOR THE MAJOR

The major prepares students for graduate work in sociology as well as in other disciplines; for professional schools (law, business, social work, journalism, urban planning), and for all occupations requiring general knowledge of society and social interaction as well as basic skills of social research.

A minimum of 10 courses is required for the major, including

SOC BC 1003	*Introduction to Sociology*
SOC BC 3082	*Junior Colloquium*
SOC V 3211	*Quantitative Methods* (not later than the junior year)
SOC BC 3087-BC 3088	*Individual Projects for Seniors*

and at least five other courses selected in consultation with the major adviser. Sociology BC 3211 should be taken no later than the junior year.

There is no major examination. To graduate, a student must complete, to the satisfaction of her instructor in BC 3087-BC 3088, a long paper involving some form of sociological research and analysis.

REQUIREMENTS FOR THE MINOR

Five courses are required for the minor in Sociology, including SOC BC 1003, and four courses to be selected in consultation with the Sociology adviser.

COURSES OF INSTRUCTION

SOC BC 1003x
Introductory Sociology
An introduction to the sociological imagination which focuses on group influences on the individual (conformity, social structure and personality, community and deviance); the institutional arrangements of class, gender, ethnicity, and bureaucracy; the role of social movements and technology in social change. —N. Friedman
3 points. M W 2:40-3:55 *III S*

SOC V 1205x, y
Evaluation of Evidence
A non-technical introduction to alternative strategies by which social science data are transformed into evidence for theoretical arguments. Discussion of the logic and procedures of social science research and standards for the critical evaluation of that research; the discussion is based on a careful reading and analysis of significant studies exemplifying the use of different kinds of social science data and methods (field observations, historical archives, surveys, and experiments).
3 points. x: Tu Th 2:40-3:55 —M. Morris
y: Tu Th 2:40-3:55 —R. Freeland *S*

Note: One introductory course in sociology suggested as a prerequisite for all 3000-level courses.

SOC BC 3082y
Junior Colloquium: Perspectives on Social Order
An examination of the major theoretical frameworks sociologists use to analyze power: symbolism, conflict, inequality, exchange, consensus, deviance, organization, values, and affiliation. Students will complete a prospectus that outlines the substantive topic, methodological approach, and theoretical concerns of their senior essays. —L. Chancer
Prerequisite: SOC BC 1003 or permission of the instructor.
4 points. W 4:10-6:00 *III S*

SOC BC 3087x-3088y
Individual Projects for Seniors
The instructor will supervise the writing of long papers involving some form of sociological research and analysis. —K. Moore, R. Smith
Required of all senior majors.
4 points. W 4:10-6:00

SOC V 3100x
Introduction to Social Theory
The rise and transformation of modern society in the 19th and 20th centuries. "Classical" literature such as Marx, Durkheim, and Weber will be read. Selected topics: the relationship between individual, society, and polity; gender relations, class, and status relations; moral and instrumental action. —N. Friedman
3 points. Tu Th 11:00-12:15 *III S*

SOC BC 3115x
Feminist Theory
An analysis of the theoretical assumptions and political implications of liberal, radical, Marxist, and socialist variants of first- and second-wave feminist theory, including recent works in psychoanalytic and post-modern feminism. The course also considers the implications of such feminist arguments for debates within contemporary and classical sociological theory. —L. Chancer
Permission of the instructor required. Enrollment limited to 15 students.
4 points. Not offered in 1995-96. *III S*

SOC V 3200y
Gender, Class, and Race
An examination of the critical role that gender, class, and race play in social life, and their relationship to inequality, community, and culture. The course will focus on reactions to and perceptions of difference in the spheres of family, work, sexuality, and politics. —L. Chancer
3 points. Not offered in 1995-96. *I S*

SOC V 3211y
Quantitative Methods
An introduction to statistical methods emphasizing their application to practical research problems. Topics include frequency distributions, cross-tabulations and correlation, basic concepts of

probability, hypothesis testing, and the analysis of variance. Students will learn to execute basic statistical analyses on a personal computer. —K. Moore
3 points. M W 1:10-2:25 Lab M 2:40-3:55

SOC V 3213y
Culture in Contemporary America
3 points. Not offered in 1995-96. *S*

SOC V 3215x
American Society and Politics
Study of class and power in the U.S., using historical data and contemporary case studies. Key theoretical approaches in political sociology, with particular emphasis on theories of liberal democracy. —J. Hartman
3 points. Tu Th 4:10-5:25 *III S*

SOC V 3216x
Organizations in Modern Society
An exploration of the growth of large organizations in politics, business, government, and culture; the structure of the corporation; not-for-profit organizations (art museums, universities); organizational cultures; dilemmas of hierarchy, power, and alienation; the tension between organizations and democracy; left and right critiques of the organizational state. —K. Moore
3 points. M W 9:10-10:25 *III S*

SOC 3221x
Social Disorganization: Deviance and Social Control
A study of different theoretical approaches to deviance and an analysis of important empirical research on various forms of deviant behavior. Crime is considered within the broader context of social deviance. —P. Read
3 points. M W 4:10-5:25 *S*

SOC 3222y
Criminology
Building upon theoretical perspectives studied in SOC W 3221x, theories and research relating to criminal behavior are examined. Topics include the comparative study of crime, juvenile delinquency, organized crime, and public policies to control and prevent crime. —P. Read
3 points. M W 4:10-5:25 *S*

Sociology SOC V 3225y
Sociology of Education
Social organization of education in the United States and its effects. Examines schools as agents of socialization: the contribution of education to social equality and inequality; schools as formal and informal organizations; teachers and students; and the politics of education including case studies of desegregation, decentralization, and public versus private schooling. —K. Neckerman
3 points. M W 1:10-2:25 *S*

SOC V 3920x
Science and Society
The social factors that shape the practice of science, the development of knowledge, and the impact of both on society. Topics include the social construction of scientific facts; the institutional structure of the science world; feminist and other critiques of scientific "objectivity"; the politics of research on AIDS, nuclear power, and race. —K. Moore
3 points. M W 1:10-2:25 *III S*

SOC V 3228x
Sociology of Medicine
An analysis of illness and its management in contemporary society. Topics include social definitions of health and illness; the structure of the "sick" role; social factors in the etiology and distribution of illness; social organization of the medical profession and of the hospital; problems and prospects of health delivery systems. —T. Rogers
3 points. M W 2:40-3:55 *III S*

SOC V 3235y
Social Movements
Social movements and the theories social scientists use to explain them, with emphasis on the American civil rights and women's movements. Topics include theories of participation, the personal and social consequences of social movements, the rationality of protest, the influence of ideology, organization, and the state on movement success, social movements, and the mass media. —K. Moore
3 points. Not offered in 1995-96. *III S*

SOC W 3240x
Introduction to Japanese Society
3 points. Not offered in 1995-96.

SOC V 3265y
Minorities and Ethnic Groups in American Life
The role of racial and ethnic communities in modern American society, with emphasis on the distinctive cultural, political, and occupational patterns, as well as the tendencies to intermarry, assimilate, and conflict. Jewish, Italian, Irish, Puerto Rican, and African-American groups, amongs others, are studied. —E. Litwak
3 points. M W 4:10-5:25 *I S*

SOC V 3270x
Sociology of Mass Media and Popular Culture
Contemporary forms of mass media and genres of popular culture, including print and broadcast journalism, television, movies, popular literature, fashion, and music. Issues include the rise of mass society; the role of organizations and institutional environments in shaping the production of mass culture; the role of mass culture in producing and reproducing basic social categories, like racial and gender stereotypes; how the media shapes politics. —J. Olick
3 points. M W 2:40-3:55 *III S*

SOC V 3275y
Health Care Crises: U.S. in Comparative Perspective
3 points. Not offered in 1995-96. *S*

SOC V 3310x
Gender and Deviance
Examines how gender categories can bestow deviant status on women and men. Theories of deviant behavior are reinterpreted in light of new perspectives on gender. Proposed topics include sexuality (e.g., maternity norms, reproductive rights issues, diversity of sexual practices); mental illness, crimes by and against women; cultural representations of gender. —L. Chancer
3 points. Tu Th 2:40-3:55 *III S*

SOC V 3320x
Social Problems
A consideration of the historical evolution of American theories of social problems and the application of theoretical frameworks to specific problems such as poverty, homelessness, crime, and race- and gender-based discrimination. —L. Chancer
3 points. Tu Th 10:35-11:50 *III S*

SOC V 3331y
Creation and Career in Art Worlds
3 points. Not offered in 1995-96.

SOC V 3555y
Sociology of Family Institutions
An examination of major theoretical frameworks and empirical research concerning the family. Analysis of the contemporary industrial family, with considerable attention to historical and cross-cultural materials. Some topics are courtship and mate selection; sex roles and sexuality; alternative family structures; parenthood and the changing status of children; the impact of class, ethnicity, and race on family life; social policy and the future of the family. —L. Chancer
3 points. Not offered in 1995-96. *III S*

SOC BC 3250y
Sociology of Jewish Life in America
A sociological analysis of Jewish life in America since World War II. Educational, occupational, economic, and political patterns of American Jews; the American Jewish family; changing patterns of religious observance, affiliation, and assimilation; relations with other ethnic groups; American Jews and Israel; challenges to Jewish identity and continuity in American society. —N. Friedman
3 points. M W 1:10-2:25 *III S*

SOC V 3324x
Poverty, Inequality, and Policy: A Sociological Perspective
An examination of poverty, the "underclass," and inequality in the United States. Part 1: The moral premises, social theories, and political interests shaping current debates about the poor. Part 2: A more concrete analysis of the lives of the poor and the causes of family breakdown, the drug economy, welfare, employment, and homelessness. —R. Smith
3 points. Tu Th 1:10-2:25 *III S*

SOC V 3247y
The Immigrant Experience, Old and New
The immigrant experience in the United States. Topics include ideologies of the melting pot; social, cultural, and economic life of earlier immigrants; the distinctiveness of the African-American experience; recent surge of "new" immigrants (Asians, Latinos, West Indians); Proposition 187 and changing American views of immigration. —R. Smith
3 points. Tu Th 1:10-2:25 *I S*

SPANISH AND LATIN AMERICAN CULTURES

208 Milbank Hall

Chair: 854-5314
Language Coordinator: 854-5422
Administrative Assistant: 854-5417

Professors: Alfred Mac Adam, Mirella Servodidio[1], Marcia L. Welles (Chair)

Assistant Professors: Isolina Ballesteros, Licia Fiol-Matta, Alessandra Luiselli

Senior Lecturers: James Crapotta (Language Coordinator), Flora Schiminovich

Lecturer: Agueda Rayo

Associates: Robin Cantone, Vilma Bornemann Caraley

[1]Absent on leave 1995-96.

The Spanish major trains the student to express herself fluently in both oral and written Spanish. It provides her with an intellectual grasp of both the literature and culture of Spain and Latin America.

Foreign Language Requirement for the Degree: First-year students with prior training in Spanish who wish to satisfy Barnard's foreign language requirement in Spanish will be placed in the appropriate language course on the basis of either their CEEB score or the pre-registration placement test administered by the Spanish Department. Students scoring 4 or above on the placement test will be exempted. All others must complete BC 1204. Spanish-speaking students may take BC 1208x instead with permission of the instructor. Transfer students should consult the department chair.

The Spanish Club facilitates joint faculty-student projects. The club sponsors discussion sessions and films and lectures by writers, artists, and visiting scholars.

REQUIREMENTS FOR THE MAJOR

Interested students should consult members of the department as early as possible in order to create a course of study suited to their particular interests. The Spanish Department also provides guidance for students interested in the Spanish subdivision of the Foreign Area Studies major. The Spanish Department actively encourages students to study abroad and may be consulted about these programs.

There are three majors available to prospective students in the department: **I. Language and Literature, II. Spanish Studies, III. Latin American Studies**. Each option requires a Senior Essay (BC 3999x or y *Independent Study for Majors*).

I. Language and Literature: This program emphasizes a knowledge of Spanish language and the literature of Spain and Latin America. The major consists of 11 courses.

The six required courses are:

BC 3115	*Latin-American Culture I*
BC 3121	*The Literature of Latin America: From the Colonial Period to Modernism*
BC 3123	*Spanish Literature in the Middle Ages and the Early Renaissance*
BC 3127	*Don Quijote*
BC 3125	*The Struggle of Two Spains*
BC 3999x or y	*Independent Study for Majors* (thesis topic and adviser to be selected)

Five electives of (3 points each) to be chosen from literature and culture courses at the 3000 level (in Spanish).

Requirements for the Minor: Six courses: BC 3121, BC 3123, BC 3127 and three electives (of 3 points each) from the language and literature options at the 3000 level (in Spanish).

II. Spanish Studies: This program emphasizes the literature, history, and culture of Spain. The major consists of 12 courses (eight within the Spanish Department, four within other disciplines).

The five required courses are:

BC 3123 *Spanish Literature in the Middle Ages and the Early Renaissance*
BC 3124 *Literature of the Golden Age*
BC 3125 *The Struggle of Two Spains*
BC 3129 *The Culture of Spain*
BC 3999x or y *Independent Study for Majors* (thesis topic and adviser to be selected)

Three electives of 3 points each to be chosen from the Peninsular literature and culture courses at the 3000 level (in Spanish). BC 3004, Section 2 *Language and World View: Special Issues in Contemporary Spain* and BC 3131 *Civil War and Post-War Spain: Myth and Reality Through Film, History, and Literature* are strongly recommended.

Four courses from offerings in the Social Sciences or Humanities that relate to Spain and define a special field of interest (to be chosen in consultation with the major adviser). History BC 1011 and 1012 *Introduction to European History* are strongly recommended.

III. Latin American Studies: This program emphasizes the literature, history, and culture of Latin America. The major consists of 14 courses (eight within the Spanish Department; six within other disciplines).

The four required courses are:

BC 3115 *Latin American Culture I*
BC 3116 *Latin American Culture II*
BC 3121 *The Literature of Latin America: From the Colonial Period through Modernism*
BC 3999x or y *Independent Study for Majors* (thesis topic and adviser to be selected)

Four electives of 3 points each to be chosen from the 3000 level, two of which must pertain to specific regions of Latin America (BC 3143 *Literature of the Spanish Caribbean*; BC 3117 *Literature of the Southern Cone*; BC 3118 *Contemporary Mexican Literature*; BC 3119 *Literature of the Andes;* BC 3120 *Twentieth-Century Puerto Rican Literature).*

Six courses in the social sciences or humanities that pertain to Latin America and define a special field of interest (to be selected in consultation with the major adviser).

COURSES OF INSTRUCTION

LANGUAGE COURSES

(Enrollment limited to 20 students per section; sign-up sheets on departmental bulletin board.)

SPA V 1101x-1102y
Elementary First-Year Course
An introductory course to Spanish as a vehicle for oral and written communication. Emphasis on speaking, listening comprehension, reading, and writing. Fundamentals of grammar. Tape recorder required for homework on audiotapes. —Staff
4 points. x: Sec. 2 M-F 10:00
Sec. 3 M-F 11:00
y: Sec. 2 M-F 10:00
Sec. 3 M-F 11:00

SPA BC 1103x
Intensive Review of Elementary Spanish
Course for incoming students whose score on the placement examination puts them between the beginning and intermediate levels. To be followed by BC 1203y. —Staff
4 points. Sec. 1 M Tu W Th 10:00
Sec. 2 M Tu W Th 11:00
Sec. 3 M Tu W Th 3:10

SPA BC 1203x, y
Intermediate Course, Part I
Further development of spoken and written communication skills. Review of grammar and syntax. Discussion and analysis of short literary texts. Some linguistic and cultural analysis of contemporary Spanish videos and films. —Staff
Prerequisite: V 1102 or BC 1103 or the equivalent.
4 points. x: Sec. 1 M Tu W Th 10:00
Sec. 2 M Tu W Th 11:00
Sec. 3 M Tu W Th 1:10
Sec. 4 M Tu W Th 3:10
y: Sec. 1 M Tu W Th 10:00
Sec. 2 M Tu W Th 11:00
Sec. 3 M Tu W Th 1:10

SPA BC 1204x, y
Intermediate Course, Part II
Review of more advanced grammar points. Readings, discussions, and analysis of important works by Latin American authors. Analysis and discussions of Latin American films. —Staff
3 points. x: Sec. 1 M W F 11:00
Sec. 2 M W 1:10-2:25
Sec. 3 Tu Th 1:10-2:25
y: Sec. 1 M W F 10:00
Sec. 2 M W F 11:00
Sec. 3 M W 1:10-2:25
Sec. 4 Tu Th 1:10-2:25

SPA BC 1207y
Intermediate Conversation
Designed to advance oral and listening proficiency and to increase vocabulary within a wide range of daily and contemporary topics. Materials include readings, cassettes, and videotapes. Activities include role-playing, interviews, small group activities, and oral reports. Some visits to Hispanic cultural events in New York City will be required. —Staff
Recommended parallel: Spanish BC 1203, BC 1204.
Prerequisite: V 1101x-1102y or the equivalent. Not open to native speakers.
2 points. M W 12:00-1:00

SPA BC 1208x
Spanish for Spanish-Speaking Students
Designed for native and non-native Spanish-speaking students who have oral fluency beyond the intermediate level but have had no formal language training. Introduction to Spanish grammar with special emphasis on complex sentence structure and syntax. Writing, reading, and building new vocabulary. May be used to satisfy language requirement with permission of the instructor. —A. Rayo
Prerequisite: Oral fluency.
3 points. Tu Th 1:10-2:25

SPA BC 3107x
Advanced Oral Spanish
Designed to advance oral and listening skills through contact with advanced authentic materials such as newspapers, news broadcasts, films, and videos. Special emphasis on idiomatic expressions. Discussion and debates around controversial contemporary issues. Oral reports. Some visits to Hispanic cultural events in New York City will be required. —Staff
Not open to native speakers.
2 points. M W 12:00-1:00

SPA BC 3004x, y
Language and World View
Reinforcement and development of modern language skills through focused attention on contemporary sociopolitical issues of Spain and Latin America. Useful for students in Foreign Area Studies, Political Science, History, and Economics.
Enrollment limited to 20 students. Sign-up sheets on departmental bulletin board.
3 points.

x. 3. Hispanics in the United States
An investigation of the cultural and socio-economic patterns of Hispanics in the United States, their participation in the world of entertainment, visual arts, and literature, and their struggle for political power. Reinforcement of oral and written Spanish. Films, newspaper and magazine articles, essays. —F. Schiminovich
M W 1:10-2:25

y. 2. Special Issues in Contemporary Spain
Features films and readings from newspapers, magazines, and journals centering on the issues confronting contemporary Spain: the transition to democracy and modernization, terrorism, regional autonomy, feminism, and sexual identity. Readings, discussions, and papers designed to improve oral and written proficiency. —I. Ballesteros
Tu Th 2:40-3:55

SPA BC 3096y
Poetry Writing in Spanish
Writing of at least two original works of poetry in Spanish to be read and commented upon by the group. Varied assignments designed to explore the resources of language through free association, imitation, allusions, and similar techniques. Reading of contemporary Latin American women poets to provide a further context and enrich discussion. —A. Rayo
Prerequisites: Completion of language requirement or Spanish-speaking background and permission of the instructor.
2 points. M W 2:40-3:55

LITERATURE AND CULTURE COURSES

For non-majors, all courses will count toward the distribution requirement. All departmental courses are conducted in Spanish unless otherwise stipulated. The prerequisite for all literature and culture courses is satisfaction of the foreign language requirement in Spanish. Exceptions should be discussed with the instructor and the departmental chair.

INTRODUCTORY COURSES

(Enrollment limited to 15 students. Sign-up sheets on departmental bulletin board.) Designed to acquaint students with close reading of a limited number of major literary texts. Emphasis is on the analysis of language and genre and serves as a bridge between intermediate language courses and more advanced courses in literature and culture.

SPA BC 3110x
An Introduction to Spanish Theatre

Analysis of the varied functions and forms of theatre in representative Spanish plays of the 17th through the 20th centuries: the *comedia,* the *entremés,* Romantic drama, the *esperpento,* surrealist theatre, absurdist comedy, and political satire. Authors include Cervantes, Lope de Vega, Zorrilla, Valle-Inclán, Lorca, Arrabal, and Ruibal. —J. Crapotta
3 points. Tu Th 1:10-2:25 *H*

ADVANCED COURSES

LATIN AMERICA

SPA BC 3115x
Latin American Culture I

Latin American history, society and art, from the time of the great Indian empires to the late 19th century. —A. Luiselli
3 points. Tu Th 2:40-3:55 *III*

SPA BC 3116y
Latin American Culture II: A Socio-historical Approach

A revisionist examination of Latin American history, politics, and society. From the aftermath of the Wars of Independence (1824-1880) to contemporary Latin America in the context of its modernization and dependency. —L. Fiol-Matta
3 points. Tu Th 4:10-5:25 *III*

SPA BC 3121y
The Literature of Latin America: From the Colonial Period through Modernism

From the flowering of baroque literature during the colonial period, with special emphasis on the writings of Sor Juana Inés de la Cruz, to the renascence of Spanish-American writing during the period of modernism. —L. Fiol-Matta
3 points. Tu Th 1:10-2:25 *III H*

SPA BC 3112y
Love and Eroticism in Contemporary Latin American Literature

An introduction to the artistic manifestations of love and eroticism and their relationship to social attitudes. Works by Gabriela Mistral, Vicente Huidobro, Neruda, Paz, Borges, Isabel Allende, Vargas Llosa, and Márquez. —F. Schiminovich
3 points. M W 1:10-2:25 *H*

SPA BC 3117x
Literature of the Southern Cone: The Dialects of Fantasy and Reality

An examination of the literature of the Southern Cone — Argentina, Uruguay, Paraguay, and Chile; the tension between fantastic literature and literary realism. Readings include Borges, Casares, Ocampo, Onetti, Donoso, and Augusto Bastos. —A. Mac Adam
3 points. Tu Th 10:35-11:50 *H*

SPA BC 3118y
Contemporary Mexican Literature: The Interplay of History and Narrative

A study of Mexican historical novels as meeting places for the rival discourses of history and narrative. Works by significant Mexican authors (Yáñez, Fuentes, Paz, Poniatowska, Pacheco, Ibarguengoitia, and Castellanos). —A. Luiselli
3 points. Tu Th 2:40-3:55 *III H*

SPA BC 3136x
Experimental Texts by Latin American Women

An analysis of experimental works by Latin American women in fiction, poetry, and drama, in order to uncover the relationship between women authors and foundational or *avant garde* movements such as *modernismo, vanguardias,* surrealism, fantastic literature, the so-called "boom," and revolutionary literature. Special emphasis on the relation between gender and writing. —L. Fiol-Matta
3 points. M W 2:40-3:55 *H*

SPAIN

SPA BC 3124x
Literature of the Golden Age

A study of the poetry, theatre, and narrative of a society in crisis, as Spain confronts both Islam and the Protestant north and deals with the problems of rural and urban decline. Authors include Cervantes, Lope de Vega, Tirso de Molina, and Calderón. —M. Welles
3 points. Tu Th 2:40-3:55 *H*

SPA BC 3132y
Contemporary Literature: From the Avant-garde to Social Realism and After

Literary trends from Garcia Lorca and the Generation of 1927 through the post-Civil War authors to the current generation of novísimos. —I. Ballesteros
3 points. Tu Th 10:35-11:50 *H*

SPA BC 3150y
The Deceived Husband: Passion, Perversion, and Death

An examination of the figure of the deceived husband in light of the honor code and the male fantasies that produce it. Readings include plays and short stories of the Golden Age (Calderón, Lope, Cervantes, María de Zayas) as well as contemporary plays (Valle-Inclán and García Lorca) and film (Buñuel). —M. Welles
3 points. M W 2:40-3:55 *III H*

SPA BC 3151x
Spanish Film: Cinematic Representations of Spain

An examination of Spanish film in both theoretical and historical terms. Considers political and ideological changes through the 20th century and their repercussions in cinematic representation. Includes a selection of films from early surrealist collaborations by Luis Buñuel and Salvador Dalí to recent post-modern productions by Pedro Almodóvar and Fernando Trueba. —I. Ballesteros
3 points. Tu Th 4:10-5:25 *III H*

COURSES IN ENGLISH

CPS 3204x
Literature of the Americas

Posits and seeks to answer the question "Do the Americas have a common literature?" It juxtaposes texts from all over the hemisphere in order to compare their uses of themes and genres. Among the authors to be read are Sor Juana Inés de las Cruz, Emily Dickinson, Poe, Borges, Faulkner, García Márquez, Hawthorne, and Fuentes. —A. Mac Adam
3 points. Tu Th 1:10-2:25 *III H*

CPS 3010y
Picaresque Narratives: The Discourse of Disorder

An investigation of the structures and ideology of the picaresque, with emphasis on the relationship between genre and gender, writing and authority. Readings include Petronius and Apuleius, the *Lazarillo de Tormes* and Francisco de Quevedo's *The Swindler,* Daniel Defoe's *Moll Flanders,* Kathy Acker's *Don Quijote,* and Isabel Allende's *Eva Luna.* —M. Welles
3 points. Tu Th 4:10-5:25 *H*

SPA V 3265y
Latin American Literature in Translation

A study of contemporary Latin American narrative; its origins and apotheosis. Readings include Machado de Assis, Borges, García Márquez, Puig, and others. —A. Mac Adam
3 points. M W 1:10-2:25 *I H*

COURSES NOT OFFERED IN 1995-96

Language

SPA BC 3004x, y
Languages and World View
x. 1. Latin American Women Today: Fact and Fallacy

SPA BC 3008
Language and Film: Issues in Contemporary Spanish Cinema

Literature

SPA BC 3106
Advanced Composition and Translation

SPA BC 3109x
Introduction to Literary Analysis

SPA BC 3119y
Literature of the Andes: Revolution and Identity

SPA BC 3120x
Twentieth-Century Puerto Rican Literature

SPA BC 3123y
Spanish Literature in the Middle Ages and the Early Renaissance

SPA BC 3125x
The Struggle of Two Spains

SPA BC 3126
Archetypal Patterns in Contemporary Women's Fiction

SPA BC 3127y
Don Quijote

SPA BC 3128
Eighteenth-Century Spain: Dreams of Reason

SPA BC 3129x
The Culture of Spain

SPA BC 3130
García Lorca: The Poet in His Contexts

SPA BC 3131x
Civil War and Post Civil War Spain: Myth and Reality through Film, History, and Literature

SPA BC 3134x
Marriage and Adultery in 19th-Century Spanish Film

SPA BC 3141x
The Boom: Spanish American Novel, 1962-1970

SPA BC 3142y
Film Literature Relations in Modern Latin American Narrative

SPA BC 3143y
Literature of the Carribean

Spanish-Women's Studies SPW BC 3135y
Reading for Difference: Lesbian and Gay Themes in Hispanic Literature and Film

Courses in English

SPA BC 3087
Spain of the Habsburgs: A Culture in Crisis

SPA BC 3201
Modern Latin-American Narrative

SPA BC 3203y
Women Poets of the Americas: Kindred Voices

SPA BC 3204x
Latina Literature

SPW BC 3205y
Hispanic and Gay Representations in the Literature of the Americas

FOR SPANISH AND PORTUGUESE COURSES AT COLUMBIA UNIVERSITY, CONSULT COLUMBIA UNIVERSITY BULLETIN.

STATISTICS

618 Mathematics Building 854-3652

Officers of the University offering courses in Statistics:

Professors: William Dumouchel (School of Public Health), Joseph Fleiss (School of Public Health), Christopher C. Heyde, Ioannis Karatzas, David H. Krantz (Psychology), Bruce Levin (School of Public Health), Shaw-Hwa Lo (School of Public Health), Paul Meier (Chairman)

Associate Professors: Victor de la Peña, Guillermo Gallego (IEOR), Karl Sigman (IEOR), Wei-Yann Tsai (School of Public Health), Christine Waternaux (School of Public Health), David Yao (IEOR)

Assistant Professors: Melissa Begg (School of Public Health), Jaksa Cvitanic, Marianthi Markatou, Myonghee Paik (School of Public Health), Daniel Rabinowitz, Yongzhao Shao

Adjunct Assistant Professors: Demissie Alemayehu, Eva Petkova

Barnard Representative: Victor de la Peña, x 45360

The Department of Statistics offers a wide range of courses in probability and statistics. Probability and statistics deal with phenomena involving uncertainty. Probability theory describes the behavior of given random systems, while statistical methods facilitate the discovery of hidden regularities in such systems from observed data. The department trains students to apply statistical methodology in their later careers in the biomedical or social sciences, business, engineering, etc., or to continue with graduate study in statistics, business management, operations research, and related fields. Members of the department are actively engaged in both theoretical and applied research. Students may not take both 1001 and 1111 for credit. Certain majors require 1111. Consult the respective major department.

REQUIREMENTS FOR THE MAJOR

All majors should consult the departmental representative regularly in planning their programs of study. The requirements listed below are special to this department and must be read in conjunction with the general requirements for the bachelor's degree. As a rule, no more than 12 points of transfer credit may be accepted toward the major.

A total of 13 courses are required for the major, including:

Mathematics V 1101, V 1102 and V 2010, or their equivalents

Statistics IEOR W 3658 or IEOR W 4105, Statistics W 3659, W 4312, and W 3701

One approved course in computer science beyond the introductory level and five additional courses to be chosen with departmental approval from statistics, mathematics, computer science, or operations research, at least two of which must be statistics courses numbered above 4200

A major examination set by the department must be passed in the senior year. By special permission, a Senior Project may be substituted.

REQUIREMENTS FOR THE MINOR

The minor in Statistics requires a minimum of six courses, five in statistics, including: W 3658 (or W 4105), W 3659, W 4312, and any statistics course numbered above 4200, and one approved course in Computer Science.

COURSES OF INSTRUCTION

STA W 1001x, y
Introduction to Statistical Reasoning

Designed for students in non-quantitative fields. Probability concepts and basic theory of sampling distributions are used as aids to quantitative reasoning and data analysis, with illustrations drawn mainly from the social sciences. Problems of data quality and causal inference; graphical and numerical summaries of data; statistical modeling of relationships between variables; use of computer for data management, evaluation of models, and estimation of parameters. —x: V. de la Peña, y: TBA.
Prerequisite: some high school algebra.
3 points. x: Tu Th 10:35-11:50
y: Tu Th 6:10-7:25

STA W 1111x, y
Introduction to Statistics

Designed for students in fields (such as economics) that emphasize quantitative methods. Probability concepts and basic theory of sampling distributions are used as aids to quantitative theory and data analysis, with illustrations drawn from the natural and social sciences. Problems of data quality and causal inference; graphical and numerical summaries of data; statistical modeling of relationships between variables; use of computer for data management, evaluation of models, and estimation of parameters.
Prerequisite: High school mathematics through intermediate algebra.Enrollment limited to 35 per section.
3 points. x: Sec. 1, 2 Tu Th 10:35-11:50 —S-H. Lo
Sec. 3 Tu Th 6:10-7:25 —TBA
Sec. 4 Tu Th 6:10-7:25 —TBA
y: Sec. 1, 2 Tu Th 10:35-11:50 —TBA
Sec. 3 Tu Th 6:10-7:25 —TBA
Sec. 4 Tu Th 6:10-7:25 —Y. Shao

STA W 1211x, y
Introduction to Statistics B

Designed for students in fields that emphasize quantitative methods. Probability concepts and basic theory of sampling distribution are used as aids to quantitative reasoning and data analysis, with illustrations drawn from the natural and social sciences. Introduction to use of computers for data management, graph construction, evaluation of regression models, and estimation of unknown parameters. Topics of Statistics W 1111 are covered in greater depth.
Prerequisite: Calculus I
3 points. x: Sec. 1 Tu Th 10:35-11:50 —TBA
Sec. 2 Hours TBA. —E. Petrova
y: Sec. 1 Tu Th 10:35-11:50 —TBA
Sec. 2 Hours TBA. —M. Markatou

STA W 2201y
Introduction to Data Analysis

Designed for students in non-quantitative fields. The role of statistical methods within the realm of scientific research methods. Utility of statistics to describe and analyze human, societal, and natural phenomena. Fundamental stages of methodological statistics: identification of objectives, information collection, organization, analysis and interpretation of data. Case studies using a computer statistical package. —D. Krantz
Prerequisite: STA W 1001 or the equivalent.
3 points. M W 10:35-11:50

STA-IEOR STI W 3600x
Introduction to Probability and Statistics

Fundamentals of probability and statistics used in engineering and applied science. Probability: random variables, useful distributions, expectations, laws of large numbers, central limit theorem. Statistics: point estimations, confidence intervals; hypothesis tests, linear regressions, ANOVA. —TBA.
Prerequisite: A working knowledge of calculus.
4 points. M Tu Th 1:00-2:15

STA-IEOR STI W 3658x
Probability

Fundamentals of probability theory. Distributions of one or more random variables. Moments. Generating functions. Functions of a random variable. Law of large numbers and the central limit theorem. —D. Yao
Prerequisite: a working knowledge of calculus.
3 points. M W 11:00-12:15

STA W 3659x, y
Statistical Inference

Principles of statistical inference. Population parameters, sufficient statistics. Basic distribution theory. Point and interval estimation. Method of maximum likelihood. Method of least squares, regression. Introduction to the theory of hypothesis testing. Likelihood ratio tests. Nonparametric procedures. Statistical design theory. Applications to engineering, medicine, and the natural and social sciences.
Prerequisite: Statistics-IEOR W 3600 or W 3658 or the equivalent.
3 points. x: Tu Th 6:10-7:25 —J. Cvitanic
y: Tu Th Hours TBA. —V. de la Peña

STA W 4315x, y
Linear Regression Models

Theory and practice of regression analysis. Simple and multiple regression including testing, estimation and confidence procedures, modelling, regression diagnostics and plots, polynomial regression, fixed effects ANOVA and ANCOVA models, non-linear regression, multiple comparisons, colinearity and confounding, model selection. Geometric approach to the theory and use of the computer to analyse data will both be emphasized. —D. Rabinowitz

Prerequisite: Probability and statistics at the level of W 4150 or W 4105 and 4107 taken concurrently, linear algebra, and calculus.

3 points. x: Hours TBA. —D. Rabinowitz
y: Hours TBA. —E. Petkova

STA W 3701y
Advanced Data Analysis

Data analysis using a computer statistical package and selected exploratory data analysis subroutines. Topics include editing of data for errors, exploratory and standard techniques for one-way analysis of variance, linear regression, and two-way analysis of variance. Material is presented in case-study format. —D. Alemayehu

Prerequisite: A one-term introductory statistics course.
3 points. M W 6:10-7:25
Two hours of laboratory TBA.

STA-IEOR STI W 4105x, y
Probability

Fundamentals, random variables, and distribution functions in one or more dimensions; moments, conditional probabilities, and densities; Laplace transforms and characteristic functions. Infinite sequences of random variables; weak and strong laws of large numbers; central limit theorem.

Prerequisite: A working knowledge of calculus. Can be taken as the sole course by students needing a basic knowledge of probability or as the foundation for more advanced courses at the senior undergraduate or M.A. level.

3 points. x: Tu Th 6:10-7:25 —C. Heyde
y: Tu Th 6:10-7:25 —V. de la Peña

STA W 4415y
Multivariate Statistical Inference

Multivariate normal distribution; multivariate regression and analysis of variance; canonical correlation and tests of independence. Principal components and other models for factor analysis. Discriminant functions and the classification problem; cluster analysis. —M. Paik

Prerequisite: Statistics W 3662/4312
3 points. Hour TBA.

STA W 4543x
Theory and Analysis of Lifetime Data

Survival distributions, types of censored data, estimation for various survival models, nonparametric estimation of survival distributions and related functions, comparison of two or more survival distributions, the proportional hazard and accelerated lifetime models for covariate data, regression analysis with lifetime data. —W.Y. Tsai

Prerequisites: Statistics W 4107 or the equivalent.
3 points. Hours TBA.

STA-IEOR STI W 4150x, y
Introduction to Probability and Statistics

Fundamentals of probability theory and statistical inference used in engineering and applied science. Probabilistic models, random variables, useful distributions, expectations, law of large numbers, central limit theorem. Statistical inference: point and confidence interval estimation, hypothesis tests, linear regression.

Prerequisite: A working knowledge of calculus.
3 points. x: M W 6:10-7:25 —Y. Shao
y: M W 4:10-5:25 —G. Gallego

STA W 4220x, y
Analysis of Categorical Data (PH 8120)

A thorough study of the fourfold table, with applications to epidemiological and clinical studies. Significance versus magnitude of associations, estimation of relative risk; matching cases and controls; effects, measurement, and control of misclassification errors; combining evidence from many studies. —Instructor TBA.

Prerequisite: PH 6104 and PH 6400 or their equivalents and permission of the instructor.
3 points. x: Tu Th 10:35-11:45 —M. Begg
y: Hours TBA. —B. Levin

STA W 4325x, y
Generalized Linear Models

Identical to *Public Health P* 8121. Topics include log-linear models for count data, analysis of ordered categorical data, analysis of continuous data where the variability increases with the mean, survival analysis, and model checking.

Prerequisite: STA W 4315
3 points. x: Tu Th 4:35-5:50 —M. Markatou
y: Tu Th 1:30-3:00 —Y. Shao

STA W 4327y
Design of Experiments (PH 8116)

Principles in the design and analysis of controlled experiments: Latin squares, incomplete block designs, crossover designs, fractional, factorial designs, confounding. —J. Fleiss

Prerequisite: PH 8111 or the equivalent and permission of the instructor.
3 points. Hours TBA.

STA-IEOR STI W 4606x, y
Elementary Stochastic Processes
Review of elements of probability theory. Poisson distribution process. Exponential distribution. Renewal theory. Wald's equation. Introduction to discrete time, Markov chains and applications to queuing theory, inventory models, branching processes.
Prerequisite: Statistics-IEOR W 3658, Statistics-IEOR W 4105 or the equivalent.
3 points. x: M 4:10-6:30 —K. Sigma
y: Hours TBA. —I. Karatzas

STA C 3997x, y
Independent Research
The student participates in the current research of a member of the department and prepares a report on the work. —Staff.
Prerequisite: The permission of a member of the department. May be repeated for credit.
3 points.

THEATRE

507 Milbank Hall 854-2079, 2080

Professor: Denny Partridge (Chair, Alice B. Pels Professor of Theatre, and Director of the Minor Latham Playhouse)

Associate Professors: Elizabeth Swain (Adjunct), Amy Trompetter (Visiting)

Lecturers: Patricia Denison (English), Steve Friedman, Mark Sussman

Associates: Andy Gale, Patricia Hernandez, Susan Jain, Sara Lampert-Hoover, Hua Wen-yi

Theatre Manager: Kat Kavanagh

The study of theatre at Barnard is the study of world theatre. We are part of that world. We recognize that theatre in all cultures borrows from other cultures and has analogues across time. A working knowledge of how theatre is and has been created and performed around the world is essential to the development of a theatre artist in the twenty-first century.

Every work of theatre, every production and performance reinvents the art form and reaffirms its value. What can theatre do that can be done only by theatre? How does our understanding of this ephemeral art contribute to our understanding of the world?

Theatre is the art form which brings together all the arts. The Barnard Theatre Department seeks to introduce students to the many aspects of theatre, separately and in combination, with equal respect for the theoretical and the practical. Theatrical production at Barnard is closely related to coursework: performance is the defining event of the art form. Courses in theatre history, design, playwriting, dramatic literature, acting, directing, and critical theory all lead to understanding how live theatre is created and how it is experienced by both its maker and its spectators.

Theatre is the most social of the arts, and its successful realization requires collaboration among theatre workers and between spectator and performer. Students are required to collaborate in class and in production and to become conversant with several aspects of the work. There is also the expectation that students will participate fully as audience members in department productions.

We believe that theatre skills are life skills. Self-expression, improvisation, transformation, empathy, courage, and cooperation are learned as one studies theatre. History, literature, and psychology are among the many humanistic disciplines that theatre calls on as it brings new work to life. The means to make theatre can best be found, and the integration that the art form requires can best be taught, in a liberal arts setting.

REQUIREMENTS FOR THE MAJOR

The major will be redesigned in 1995 to reflect new course offerings. Continuing students can choose to remain with the major requirements as they have been outlined previously, or change over to the new major. Students intending to major in Theatre should consult with the chair in their sophomore year or earlier to plan a program. Twelve courses and a senior project or thesis are required, as follows:

I. Three courses in theatre history: THR BC 2001x, ETR BC 3132y, ETR 3133x.

II. Three courses in dramatic literature as set forth below:
(A) ENG BC 3163 or BC 3164 *Shakespeare*
(B) One seminar on Dramatic Literature selected from:

ETR 3134	ETR 3135	ETR 3136
ETR 3137	ETR 3138	THR 3140

(C) One other course in Dramatic Literature, to be chosen in consultation with the departmental adviser from a wide variety of offerings at Barnard and Columbia.

III. Six additional courses in theatre practice to be chosen in consultation with the

departmental adviser. One course in Dance, Visual Arts, or Music may be substituted with the permission of the chair.
(Other courses pertinent to study of theatre-related subjects may be substituted with the permission of the chair.)

IV. The senior theatre major must complete a semester-long thesis course, either in the area of Performance, or within the areas of History, Dramaturgy, and Criticism.

THR BC 3997 *Senior Project: Performance*
THR BC 3998 *Thesis Course in History, Dramaturgy, Criticism*

COURSES OF INSTRUCTION

Please note that there is an 18-point limit on studio courses for non-majors. A major may take 24 studio points in Theatre and an additional six in another discipline for a total of 30 studio points. Theatre Department studio courses are THR BC 2003, THR BC 2004x, y, THR BC 2120, THR BC 3001-3006 (all Acting Labs), THR BC 3122 Rehersal and Performance.

THR BC 2001x
Introduction to World Theatre
A practical exploration in the history and practice of world theatre through lecture-demonstrations, guest performances, and hands-on workshops in acting and design. Readings, scenework, and a final paper or project will be required. —A. Trompetter
3 points. M 6:10-7:25 Lab M 7:30-10:00 *H*

THR BC 2002x
The Theatre of New York City
An introduction to the variety of New York's theatrical worlds. Attend performances in conjunction with readings in the sociology, spatial practices, and theatre history of the city. Trips will include the backstage of the Metropolitan Opera and a wide range of theatres, including commercial, non-commercial, avant-garde, and popular. Students will write descriptive responses and keep a journal.
—M. Sussman
Enrollment limited to 20 students. Lab fee to cover ticket costs.
3 points. Th 4:10-6:00 plus one evening a week for performance viewing.

THR BC 2003y
Voice and Speech
Techniques of vocal production tailored to the individual problems and potential of the student. Exercises will be developed for use in warm-up, relaxation, breathing, and rehearsal; daily work with texts and characterization, with an emphasis on Shakespeare and other classics.
—S. Friedman
3 points. Tu Th 12:00-1:50

THR BC 2004x, y
Text and Movement
An exploration of the relationship between the spoken word and the actor's physical performance. Classical, contemporary, and student-generated dialogues will be used with movement improvisations to develop an integrated approach to characterization and the art of acting. Classes will include a series of warm-ups, creative experimentation, and scene presentation. —S. Lampert-Hoover
2 points. Tu Th 10:00-12:00

THR BC 2120x
Backstage Techniques
A general introduction to all aspects of working backstage. The class will break into crews for the creation of lighting, scenery, props, sound, costumes, and rigging, as well as for the stage management and running of the department season.
—M. Sussman
3 points. Tu Th 12:00-1:50

THR BC 3004x, 3005y
Acting Lab
This is an umbrella course whose offerings will change each year. Some are narrow, some broad; all are designed with five objectives in common:

a. To focus on a particular genre, playwright, or approach to live performance.
b. To combine theory and practice. Each class will have an on-going balance of academic and on-one's-feet work throughout the term. Homework assignments will include scene preparation, reading, research, and both individual and group projects.
c. To become aware of some of the many approaches to acting in world theatre, and to develop respect for this diversity.
d. To explore the social and political context of the work at hand.
e. To realize the integration required in all acting: ultimately, this is an acting course, and

the end goal is what happens on stage.

There will be one department audition each semester for all acting lab sections, to be held on the first day of classes. This is not a talent search; all serious students are welcome in the acting program. For the sections that include musical theatre (Acting the Song, Chinese Opera), the willingness to sing is important; vocal training is not a prerequisite.

The acting lab courses are intentionally nonsequential. Students come to the study of acting with widely varying talents and backgrounds. The mix of levels enriches the collaborative experience and offers greater flexibility for students.

No more than five courses can be taken from the Acting Lab offerings during a student's Barnard career. An additional course can be chosen from the Advanced Acting Lab for a maximum total of six acting courses.

THR BC 3004x
Acting Lab
Enrollment in each section is limited to 14 students.
Prerequisite: THR BC 3001 and/or audition
3 points.

1. Acting American Naturalism
An eclectic approach to naturalistic acting techniques; an examination of performance practice through scene study. Emphasis will be placed on works by Inge, Williams, Miller, and others; and on American naturalism as a foundation for the exploration of other acting styles. —A. Gale
M W 10:00-11:50 plus two hours TBA.

2. Acting Brecht
Intensive monologue and scene work, along with theoretical analysis and discussion. Practical applications of the "alienation effect" and other Brechtian concepts; readings of critical and dramatic work; performance assignments will be selected from the wide range of Brecht's plays, poems, and songs. —S. Friedman
Not offered in 1995-96.

3. Acting the Avant-Garde
Intensive monologue and scene work, along with theoretical reading and discussion, exploring the particular performance skills needed for the experimental drama of this century, beginning with Jarry, and including Beckett, Artaud, Mayakovsky, Ionesco, Mishima, Genet, Cocteau, Handke, and others. —S. Friedman
M W 12:00-1:50 plus two hours TBA.

THR BC 3005y
Acting Lab
Enrollment in each section is limited to 14 students.
Prerequisite: THR BC 3001 and/or audition
3 points.

1. Acting Character Through Movement
An exploration of physicality as the basis for acting. Group and individual observation and improvisation; experimentation with puppetry, masks, and stilting. Principal source material includes Augusto Boal, Peter Schumann and the Bread and Puppet Theater. —P. Hernandez
Tu Th 10:00-11:50 plus two hours TBA.

2. Acting Chekhov
Scene study, improvisation, character, and monologue work from the plays and short stories of Anton Chekhov. An examination of the artistic and social context of Chekhov's work including the acting theories of Stanislavski and the politics of naturalism. —D. Partridge
Not offered in 1995-96.

3. Acting Chinese Opera
Training in the four performance skills of Chinese Opera: song, speech, stylized movement/acting, and stage combat. Looks at Chinese Opera in its historical context in order to understand the nature of the performance tradition. —S. Jain, H. Wen-yi
F 10:00-11:50 plus two hours TBA.

4. Acting Social Comedy
Improvisation and scene study from Roman farce, commedia dell'arte, Restoration comedy, and melodrama. Physical approaches to style and character; the handling of period props and costume; in-depth examination of dramatic texts. —D. Partridge
Tu Th 12:00-1:50 plus two hours TBA.

5. Acting the Song
Singing as an extension of speech—the heightened necessity of song. A song performance workshop with special attention paid to lyrical analysis: Porter, Gershwin, Berlin, Harburg, Mercer, Hammerstein, and others. Song as it emerges from scene, and as an individual entity. —A. Gale
M W 10:00-11:50 plus two hours TBA.

THR BC 3006y
Advanced Acting Lab

1. Acting Shakespeare
Explores the implications of Shakespeare's advice to the players, "suit the word to the action, the action to the word." The approach is physical while mining the text for clues to action found in the rhetorical patterns and structures of both the verse and the prose. Public performance pre-

sented at end of the term. —E. Swain
Prerequisite: Permission of the instructor.
3 points. Tu Th 10:00-11:50 plus hours TBA.

THR BC 3122x, y
Rehearsal and Performance
Students take part in the full production of a play as actors, designers, or stage managers. Stresses the collaborative nature of production. Appropriate research and reading will be required in addition to artistic assignments. —D. Partridge, S. Friedman, M. Sussman, Staff, and guest directors.
A studio course, subject to the cap on studio credit. Can be taken more than once for credit up to a maximum of 3 credits a semester. Will be graded. Students not wishing to take this course for credit may participate fully in departmental productions with the permission of the instructor. Permission of the chair required.
1-3 points. Hours TBA.

ETR BC 3132x
History of Theatre: Shakespeare to the 19th Century
Study of theatre literature and theatre practice from the Elizabethan period to the 19th century. Focus includes Shakespeare, the English Restoration, and Spanish, French, and German drama of the period. —E. Swain
Enrollment limited to 40 students. Alternate years.
3 points. Tu Th 2:40-3:55 *III H*

ETR BC 3133y
History of Theatre: Modern Period
Enrollment limited to 40 students.
3 points. Not offered in 1995-96. *III H*

THR BC 3134y
Lighting and Performance
A practical workshop with readings in the social history and aesthetics of stage lighting, beginning with pre-electrical forms. Covers the basics of electricity, the use of theatrical lighting instruments, and theories of design and color. A series of lighting projects will be required. —M. Sussman
Enrollment limited to 12 students.
3 points. Tu 4:40-6:00 Lab Tu 4:10-6:00

THR 3135x
Intercultural Performance Design
An approach to designing theatre pieces. Techniques of freehand drawing, drafting, painting and stage models, scene painting. Research of genres from ancient folk ritual to modernist performance art, including Western and Eastern theatre traditions. —A. Trompetter
Enrollment limited to 12 students.
3 points. M W 10:00-11:50

THR 3136y
Costume, Mask and Make-Up
Drawing the figure, rendering, script and character analysis. The exploration of make-up, fabric printing, mask making, line, shape, and color. Research in period styles, and costume construction from pattern making to tailoring. —A. Trompetter
Enrollment limited to 12 students.
3 points. M W 10:00-11:50

ETR BC 3134x
Seminar on Contemporary British Political Theatre
An examination of plays and production approaches employed by the post-1968 British political theatre movement focusing on such authors as Bond, Hare, Edgar, Poliakoff, Keeffe, and Churchill. Antecedents such as Shaw and Brecht will be discussed to provide a broader context in order to explore methodology and social climate conducive to political theatre. —E. Swain
Enrollment limited to 15 students.
4 points. W 4:10-6:00 *III H*

ETR BC 3135y
Seminar on 19th-Century Social Drama
Late 19th-century social drama in the context of earlier melodrama. The shifting relationship between the visual and the verbal in the theatre and its implications for social and theatrical change. Playwrights include Jerrold, Scribe, Taylor, Robertson, Ibsen, Pinero, Wilde, Shaw, and Robins. —P. Denison
4 points. Tu 4:10-6:00 *III H*

ETR BC 3136y
Seminar on Shakespeare in Performance
The dramatic text as theatrical event. Differing performance spaces, production practices, and cultural conventions promote differing modes of engagement with dramatic texts. We will explore Shakespeare's plays in the context of actual and possible performances from the Renaissance to the 20th century. —P. Denison
Enrollment limited to 20 students.
4 points. Th 4:10-6:00. *H*

ETR BC 3140x
Seminar on Women in Theatre
An exploration of different images of women as presented in dramatic literature of various countries and historical periods, and women's evolving roles as practioners of theatre as playwrights, directors, actresses, etc. —E. Swain
Enrollment limited to 15 students.
4 points. Not offered in 1995-96. *H*

THR BC 3201x
Directing Laboratory

Approaches to staging a play, with an emphasis on physical, visual, and rhythmic techniques. In-depth experimentation in how theatre is seen and experienced as a cultural and social phenomenon, and a look at the role of the director as it has emerged in the modern European theatre and in world theatre genres. —D. Partridge
Enrollment limited to 14 students.
Prerequisite: THR BC 3201 or one acting course, and permission of the instructor.
3 points. M W 2:10-4:00

THR BC 3202y
Advanced Directing

The direction of scenes and short plays for public performance. The director as designer and dramaturge. Directorial analysis, preparation, working with actors, and production planning. The class group functions as a producing collective, with full engagement in all aspects of the process. —D. Partridge
Enrollment limited to 14 students.
Prerequisite: THR BC 3201.
3 points. M W 2:10-4:00

THR BC 3300y
Play Development

Student playwrights will dramatize fiction, news stories, and oral history, and create scenes based on improvisations, dreams, and legends. Projects will culminate in performance; playwrights will be active participants in casting, design, and staging. —S. Friedman
Instructor's permission and writing sample required.
3 points. M W 12:00-1:50 plus two hours TBA.

THR BC 3500x, y
Special Studies in Theatre

Special problems in theatre for actors, directors, designers, and critics. —Staff
4 points. Hours TBA.

THR BC 3997x, y
Senior Project: Performance

The student will direct, design, or perform a major role in a play. This work will be produced according to departmental guidelines. Students will be expected to collaborate in some aspect of the work and take part in group discussions with faculty and other senior project students. A paper will be required. —Staff
Prerequisite: THR BC 2120. Enrollment limited to senior theatre majors.
3 points. Weekly meeting TBA.

THR BC 3998x, y
Thesis Course in History, Dramaturgy, Criticism

The student will write a substantial paper focusing on a selected topic in Theatre History or Dramatic Criticism, providing political, philosophical, and social context. —Staff
Enrollment limited to senior theatre majors.
Prerequisite: THR BC 2120.
3 points. Hours TBA.

THR BC 3999
Independent Study

—Staff
3 points. Hours TBA.

URBAN AFFAIRS

406 Lehman Hall 854-3866, 8422

This program is supervised by the Committee on Urban Affairs:

Professor of Political Science: Demetrios Caraley[1] (Janet H. Robb Professor)

Associate Professor of Urban Affairs and Political Science: Ester Fuchs (Chair)

Professor of Anthropology: Paula G. Rubel

Associate Professor of Economics: Cecilia Conrad[1]

Assistant Professor of History: David Farber

Assistant Professor of Urban Affairs and Political Science: Judith Russell, J. Phillip Thompson[1]

[1]Absent on leave 1995-96

The purpose of the Urban Affairs Program is to develop understanding of the basic institutions, problems, and achievements of city life.

REQUIREMENTS FOR THE MAJOR

A major in Urban Affairs can be taken only in conjunction with a concentration in one of the regular departments.

In order to major in Urban Affairs, a student must fulfill the following requirements:

A. One course each in three of the following departments dealing primarily with urban subject matter: Anthropology, Economics, History, Political Science, Sociology.

N.B.: If you are concentrating in one of these five departments, you can count one "A" requirement course to **also** fulfill your concentration requirement, e.g.:

Anthropology V 3100	*Anthropology of Urban Life*
Economics W 3228	*The Urban Economy*
History W 4673/W4674	*American Urban History*
Political Science V 3313	*American Urban Politics*
Sociology V 3324	*Urban Sociology*

B. One course dealing primarily with urban subject matter from one department other than those list above (such as Art History, Education, English, Environmental Science, Geography, Psychology, or Urban Planning) **or** one quantitative/methodology course (such as Statistics, Computer Science, Urban Affairs BC 3200 *Program Evaluation*, or a quantitative/methodological course in your concentration).

N.B.: If you are concentrating in one of the departments listed above, you can count one "B" requirement course to **also** fulfill your concentration requirement.

C. **Five or more courses in a specialization** in one of the participating departments as specified in the Urban Affairs/Urban Studies handout.

D. In the junior year, **two colloquia** in Urban Affairs:

UST V3545	*Shaping of the Modern City*
UST V3546	*Contemporary Urban Problems.*

E. In the senior year, **two-semesters of research seminar** in the department of concentration. For **Columbia College students,** either:

- Political Science-Sociology V 3994x-V 3995y *New York Area Undergraduate Research Program* **or**
- The seminars in Urban Studies C 3610x *Boom and Bust in Downtown Development, Gentrification, and Neighborhood Abandonment* **AND** *C 3880y American Suburbanization.*

The list of specific courses and of the departments that offer specializations for urban affairs majors is available in the Political Science Department office. Appropriate courses can be substituted with the approval of Professor Caraley or Professor Fuchs.

There is no minor in Urban Affairs.

COURSES OF INSTRUCTION

Colloquia

**UAF BC 3535y*
Colloquium on Urban Administration and Management

Processes of administration and management of cities. Executive leadership, decision-making bureaucracy, budgeting, and personnel. —Instructor TBA.
Prerequisite: Political Science BC 3001 or V 3313, or the equivalent. Admission by application only. Enrollment limited to 20 students.
4 points. Hours TBA. *III S*

UAF BC 3537y
Workshop in Urban Administration and Management

Resources of New York City utilized to gain first-hand experience of administrative and managerial processes through unpaid internship of 8-10 hours per week. —Instructor TBA.
Corequisite: Urban Affairs BC 3535x.
2 points. Hours TBA.

**Urban Studies UST V 3545x-V 3546y*
Junior Colloquia on Urban Affairs

Autumn Term: Shaping of the modern city. An introduction to the historical process and social consequences of urban growth. Reading and discussion focus on origin and current status of urban problems. —D. Farber
Admission by application only.
4 points. Tu 11:00-12:50. *S*
Spring Term: Contemporary Urban Problems. Problems that currently afflict urban areas and assessment of attempted solutions. Problems of urban development, housing, education, poverty, transportation, and health. —E. Fuchs
Admission by application only. Enrollment limited to 15-20 students.
4 points. W 9:00-10:50. *S*

**POS G 8232x*
Colloquium on Urban Politics, Policymaking, and Administration

Politics, policymaking, and administration in large cities. Particular attention is given to urban social and economic problems and the federal government's role in urban affairs; the resources, strategies, and tactics of selected officials and private influentials; and alternative futures of large cities. —Instructor TBA.
Prerequisite: BC 3001 or V 3313 and permission of the instructor.
4 points. Hours TBA.

Courses in Quantitative Methods

UAF BC 3200x
Program Evaluation: Methods and Case Studies

An introduction to the approaches and methodology of program evaluation. Issues addressed: planning, program monitoring, process and outcome assessment, and benefit/cost critiques. Case studies will provide real-world examples of program evaluation techniques. Includes instruction on statistical techniques and computer software. Guest speakers will discuss urban programs in New York City in which they are involved.
—R. McChesney and Instructor TBA.
3 points. Hours TBA.

Research Seminar

Political Science-Sociology PSS V 3994x-V3995y
New York Area Undergraduate Research Program

An ongoing program that develops an urban research project from conceptualization to final report. Using New York City as a research laboratory, students choose different topics each year for study. Under the guidance of the faculty coordinator, students clarify basic theoretical issues related to the research problem; operationalize a series of empirical questions; collect evidence to test hypotheses; analyze the data using a variety of social science techniques; and produce reports of basic findings. Students individually and in small groups learn many of the basic tools used by social scientists. —J. Russell
Prerequisite: Junior or senior standing. Enrollment limited to 10-15 students, selected by application only. Participation is for two terms.
4 points. Tu 2:10-4:00

WOMEN'S STUDIES

203, 204 Barnard Hall 854-2108

Professor: Natalie B. Kampen[1] (Chair and Art History)

Associate Professor: Afsaneh Najmabadi (Chair, Spring)

Assistant Professors: Laura Kay (Physics), Licia Fiol Matta, Ann Pellegrini, Timea Szell (English), Lisa Tiersten (History), Judith Weisenfeld (Religion)

Senior Associate: Quandra Prettyman

Instructors: Julia Rodriguez, Alexandra Suh, Elizabeth Wiesen

Advisory Board: Leslie Calman (Center for Research on Women), Lynn Chancer (Sociology), Helene Foley (Classics), Mirra Komarovsky (Sociology), Paula Loscocco (English), Theresa Rogers (Sociology), Rosalind Rosenberg (History), Susan Sacks (Education), Flora Schiminovich (Spanish), Elizabeth Swain (Theatre), Student Members.

[1]Absent on leave Spring term

Women's Studies is an interdisciplinary department for students who wish to explore the basic questions raised by recent scholarship on gender and its relation to other systems of cultural/political difference: race, class, ethnicity, and sexual orientation. Some of the issues touched on in these fields are: questions about the distribution of power, work, and resources in the U.S. and elsewhere; the symbolic representation of identity in literature, religion, and art; the redefinition of "history" through the study of gender, ethnicity, race, and class; the historical place(s) of lesbian lives; the notion of cultural "roles" for women and men; and the shape of political movement which take gender as an organizational basis.

Early in their sophomore year, students interested in the major should consult the chair or any one of the faculty members teaching Women's Studies courses for a list of advisers and required courses in the disciplines of concentration.

Students also have the option of electing a joint or double major and have access to Columbia graduate courses, since some cover special areas not otherwise available at Barnard.

Complementing the Women's Studies Program, the Barnard Center for Research on Women maintains an extensive and expanding resource collection on women's issues. The Center also sponsors a variety of lectures and discussions devoted to the exploration of the relationship of feminist studies to traditional scholarship.

REQUIREMENTS FOR THE MAJOR

Majors in the department are trained in interdisciplinary research skills and focus their studies in one of two areas of concentration: humanities or social sciences/history. The major in Women's Studies is taken in conjunction with study in one of the other departments.

The requirements for the major are 14 courses to be distributed as follows:

WMS BC 3111	*Feminist Texts I: Wollstonecraft to Beauvoir*
WMS BC 3113	*Feminist Texts II: Beauvoir to the Present*
WMS V 3112	*Colloquium in Feminist Theory*
WMS V 3521-3522	*Senior Research Seminar*

Four other courses in Women's Studies (see listing below), three within the student's area of concentration (humanities or social science/history) and one in the other area (V 1001 may count in either area); and

Five additional courses in the department within the student's area of concentration. One of these five courses may be selected from a closely related department in the student's area of concentration.

The thesis, Women's Studies V 3521-3522, provides an opportunity for senior majors to engage in original interdisciplinary research and to bring to bear the theoretical emphasis

of feminist scholarship on a particular area of empirical investigation. Further, in the senior seminar, majors have the opportunity to discuss methodological issues and problems of research in a directed and supportive environment.

Special projects using the city's resources may be developed into term papers or incorporated into the senior essay. An extensive project under the sponsorship of at least two faculty members may be offered for course credits as Women's Studies BC 3599, *Independent Research.*

The Combined Major Option

The combined major option includes seven courses in Women's Studies to be distributed as follows:

WMS BC 3111	*Feminist Texts I*
WMS BC 3113	*Feminist Texts II*
WMS V 3112	*Colloquium in Feminist Theory*

Four other courses in Women's Studies (see listing below), three within the student's area of concentration (humanities or social sciences/history) and one in the other area (V 1001 may count in either area).

The requisite number of courses in the combining field, to be determined by the chair of that department or program; and

Two terms of a senior seminar to be taken in one of the fields combined in the major. The senior essay shall be designed to integrate the two areas of inquiry.

The combined major should be planned early in the sophomore year.

No minor is offered in Women's Studies.

COURSES OF INSTRUCTION

WMS V 1001x
Women and Men: Power, Politics, Poetry
An introduction to the ways in which femininity and masculinity have been imagined in literature and constructed in culture. The new interdisciplinary scholarship on gender will be presented in works of literature, films, social science, and current theory. —N. Kampen, K. Van Dyck
3 points. Tu 2:40-3:55. Discussion W 2:40-3:55 *I H*

WMS BC 3111x,y
Feminist Texts I: Wollstonecraft to Beauvoir
The important contributions to the elaboration of feminist thought in the West evaluated through critical discussion. Analysis of works by Mary Wollstonecraft, J. S. Mill, A. Kollontai, Zora Neale Hurston, Emma Goldman, C.P. Gilman, Simone de Beauvoir, and others in an attempt to discover the roots of the contemporary feminist movement.
Permission of the instructor required. Enrollment limited to 20 students.
4 points. x: M 2:10-4:00 —A. Najmabadi
y: W 2:10-4:00 —A. Najmabadi *S*

WMS BC 3113x,y
Feminist Texts II: Beauvoir to the Present
Contemporary issues in feminist thought. A review of the theoretical debates on sex roles, feminism and socialism, psychoanalysis, language, and cultural representations.
Permission of the instructor required. Enrollment limited to 20 students.
4 points. x: W 2:10-4:00 —A. Pellegrini
y: Tu 4:10-6:00 —L. Tiersten *H*

WMS V 3112x
Colloquium in Feminist Theory
An exploration of the relationship between new feminist theory and feminist practice both within the academy and in the realm of political organizing. —A. Pellegrini
Prerequisite: Major Texts I or II and permission of the instructor.
4 points. Tu 10:00-12:00, Th 10:00-11:00

WMS BC 3115x
Workshop in Women's Organizations
An optional course corequisite with V 3112x. An opportunity to investigate feminist theory in practice through involvement in NYC organizations. —A. Pellegrini
Permission of the instructor and coregistration with WMS V 3112 required. Not open to Columbia students.
2 points.

WMS BC 3117y
Women and Film

A critical interpretation of film from a feminist perspective and exploration of the relationship of gender to the language of film. —Staff
3 points. M W 4:10-6:30 *I H*

WMS BC 3120x
The Invisible Woman in Literature: The Lesbian Literary Tradition

An interdisciplinary exploration of the lesbian experience. —E. Wiesen
4 points. Tu 4:10-6:00 *H*

WMS V 3121x
Black Women in America

An examination of the experiences of African-American women from slavery through the present. Emphasis will be on the history and historiography of these experiences, as well as on critical issues facing African-American women today. —J. Weisenfeld
4 points. Tu 2:10-4:00

Art History-Women's Studies AWS BC 3123x
Women and Art

A discussion of the methods necessary to analyze visual images of women in their historical, racial, and class contexts, and to understand the status of women as producers, patrons, and audiences of art and architechture. —N. Kampen
3 points. Not offered in 1995-96. *I*

WMS BC 3130y
Discourses of Desire: Introduction to Gay and Lesbian Studies

An investigation of who or what constitutes the subject(s) of gay and lesbian studies. Themes include the historical, methodological, and epistemological crisis points of essentialism/constructionism; thinking sexuality cross-culturally; gender versus sexuality; bisexuality and the binary regimes of hetero/homo and male/female; feminism and les/bi/gay liberation; community, identity, and differences; personal life and the politics of liberation; the place of feminism in les/bi/gay studies. —A. Pellegrini
3 points. M W 11:00-12:15 *S*

Spanish-Women's Studies SPW BC 3135y
Reading for Difference: Lesbian and Gay Themes in Hispanic Literature and Film

3 points. Not offered in 1995-96.

Spanish-Women's Studies SPW 3204x
Latina Literature

A study of fiction, poetry and prose (essayistic and autobiographical) written by Latinas in the United States—Chicana, Puerto Rican, Cuban, and Dominican. Topics include: bilingualism and biculturalism; migration and crossing; community, culture, and nation; identity; the female tradtion; childhood recollections; motherhood as practice and discourse; and the diverse locations of women. —L. Fiol-Matta
3 points. Tu Th 2:40-3:55

Spanish-Women's Studies SPW BC 3205y
Hispanic Gay and Lesbian Representations in the Literature of the Americas

3 points. Not offered in 1995-96.

WMS V 3502y
Women and Science

History and politics of women's involvement with science. Women's contributions to scientific discovery in various fields, accounts by women scientists, engineers, and physicians, issues of science education. Feminist critiques of biological research and of the institution of science. —L. Kay
4 points. Tu 4:10-6:00 *S*

WMS BC 3504y
Gendered Controversies: Women's Bodies and Global Conflicts

A seminar investigating the significance of social, political and cultural conflict centered around issues concerning women's lives. —J. Rodriguez
4 points. Tu 2:10-4:00

WMS BC 3505x
Women, Islam, and Nationalism

A historical survey of how concepts of woman/gender have defined religious and national communities in the Islamic Middle East. —A. Najmabadi
3 points. M W 9:10-10:25 *II S*

WMS BC 3507x
Unheard Voices: African Women's Literature

Themes include the politics of the canon in Africa, the problems of language, post-colonial counter-discourse, the African-American continuum, and Third World and Western feminism. We will read African women's writing, including the novel, the short story, poetry, and drama. Authors include Flora Nwapa, Buchi Emecheta, Nawal El Saadawi, Miriam Tlali, Bessie Head, Alifa Rifaat, Molara Ogundipe-Leslie, Ama Ata Aidoo, Efua Sutherland, Aidoo, and Tess Onwueme. —C. Ogunyemi
4 points. Not offered in 1995-96.

WMS BC 3508y
Asian-American Women's Literature

This course explores selected texts written by Asian American women from diverse backgrounds, focusing on issues such as identity, gen-

der, generation, race, class, region, and language. —A. Suh
4 points. M 4:10-6:00

PSW BC 3683x
The Politics of Family
The development of and debates about public policies and laws that relate to families in the United States. Issue areas include the creation of the modern welfare state; changing definitions of family and of the family's relationship to the state; the state's role in the care of children; the state's role in regulating sexuality and reproduction; governmental policies regarding work/family issues; and governmental policies regarding violence within the family. —L. Calman
4 points. Th 2:10-4:00 *S*

WMS BC 3901y
Freud's Women: Psychoanalysis, Femininity, and Feminism
4 points. Not offered in 1995-96. *S*

WMS V 3521x, 3522y
Senior Seminar
Individual research in Women's Studies conducted in consultation with the instructor. The result of each research projects submitted in the form of the senior essay and presented to the seminar. —x: N. Kampen; y: T. Szell
Prerequisites: BC 3111, BC 3112, or BC 3113, or permission of the instructor. Enrollment limited to senior majors.
4 points. x: W 12:00-2:00
y: Th 12:00-2:00

WMS BC 3599x,y
Independent Research
3 or 4 points. Hours TBA. Instructor TBA.

English-Women's Studies EWS BC 3144y
Minority Women Writers in the United States
Literature of 20th-century minority women writers in the United States, with particular emphasis on works by Asian, Black, Hispanic, and Native American women. The historical and cultural as well as the literary framework. —Q. Prettyman
3 points. Tu Th 2:40-3:55 *H*

WOMEN'S STUDIES COURSES IN OTHER DEPARTMENTS AND PROGRAMS

Students should consult the departmental and program listings for course descriptions.

Anthropology ANT BC 3142x
Male and Female: Cultural Consideration of Gender
—A. Rossman

Anthropology-Asian Civilizations AAS V 3501y
Women in Japanese Society
—K. Ikeda

Asian Studies-Religion ASR 3974y
Hindu Goddesses
—R. McDermott

Comparative Literature CL W 4390y
Staging Femininity in Opera and Film
—D. Levine

Comparative Literature CL W 4612y
Gender and Psychoanalysis
—M. Mueller

Comparative Literature-Swedish CLS 3400y
Folk Tales, Fairy Tales, and Children's Literature from Scandanavia
—V. Moberg

East Asian EAS V 3650x
The Family in Chinese History
—R. Hymes

Economics ECO BC 2024y
Women in Economic Development
—U. Kalpagam

English ENG BC 3140y
Explorations of Black Literature: 1460-1890
—Q. Prettyman

English ENG BC 3910y
Women's Studies: Women, Religion, and Human Rights
—J. Ferrante

English BC 3997x, 3998y
Senior Seminars in Literature

1. The Middle Ages: Images of Women
—T. Szell

2. Women in the English Renaissance
—P. Loscocco

4. Nineteenth-Century American Women Writers
—L. Gordis

German GER W 4520y
Contemporary Women Authors
—M. Mattson

History HIS BC 3038y
European Women in the Age of Revolution: 1750-1890
—D. Valenze

History HIS BC 3082x
American Women in the 20th Century
—R. Rosenberg

History HIS BC 3090x
African Women's History
—L. Jackson

History HIS BC 3115y
History of Women in America: 1700-1900
—E. Blackmar

History HIS W3218x
Germany and the Crisis of Modernity: Nation, Race, and Gender in the Twentieth Century
—A. Grossman

History HIS BC 3429x
Consuming Passions: Gender, Class, and the Culture of Consumption in France and England: 1832 to Present
—L. Tiersten

History HIS BC 3447y
Gender and Black Nationalism
—L. Jackson

History HIS BC 3460y
Progressive Women: 1890-1920
—N. Woloch

History HIS BC 3463y
American Women in the 1920s
—N. Woloch

History HIS BC 3873x
Gender and Modernity
—A. Grossman

History HIS W 3881y
Color, Class, and Gender
—D. Scott

Philosophy PHI BC 3147y
Philosophical Issues of Feminist Theory
—S. Larson

Political Science POS BC 3440y
Women and Third World Politics
—L. Calman

Psychology PSY BC 3152y
Psychological Aspects of Human Sexuality
—W. McKenna

Religion V 3804y
Body, Gender, and Belief in China
—A. Zito

Religion V 3804y
Women, Gender, and Judaism
—S. Shapiro

Religion V 3804y
Black Women's Religious Experiences
—J. Weisenfeld

Spanish SPA BC 3004x
Latin American Women Today: Facts and Fallacies
—F. Schiminovich

Spanish SPA BC 3112y
Love and Eroticism in Contemporary Latin American Literature
—F. Schiminovich

Spanish SPA BC 3136y
Experimental Texts by Latin American Women
—L. Fiol-Matta

Spanish SPA BC 3142y
Film-Literature Relation in Modern Latin American Narrative
—F. Schiminovich

Spanish W 3500y
Contemporary Spanish Women Writers
—G. Sobejano

FIRST-YEAR SEMINAR

First-year students interested in Women's Studies may wish to select their First-year Seminar from the Women in Literature and Culture cluster. See page 149.

RECOMMENDED COURSES OF RELATED INTEREST

These courses do not count for major credit but do focus in part on women's issues and issues of gender.

Anthropology-Asian Studies V 3500x
Contemporary Japanese Society
—K. Ikeda

Anthropology-Asian Studies V 3290y
Asian-American Experience
—K. Ikeda

Comparative Literature CL W 4320x
Semiotics of Bourgeois Fashion
—D. Purdey

Education EDU BC 2032x
Contemporary Issues in Education
—K. Wilcox

English ENG BC 3998y
The Body and Language
—M. Jaanus

Political Science POS BC 3007x
Modern Political Movements
—D. Dalton

Political Science POS BC 3013x, 3014y
Political Theory
—D. Dalton

COURSES OFFERED AT REID HALL IN PARIS

The following courses are offered at Reid Hall in Paris. For additional information about the programs available, consult the Reid Hall Programs Bulletin available in 412 Lewisohn Hall.

Women's Studies H 3450y
Contemporary French Thought and Feminist Theory (Seminar)
Examines how feminist thought deals with contemporary conceptions of identity. Through a consideration of literature by women authors, the course identifies redefinitions of gender difference. —M. Marini
4 points.

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Gloria Anderson, Assistant to the Dean
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Brendan Delaney, Supervisor
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THE ASSOCIATE ALUMNAE OF BARNARD COLLEGE

The Associate Alumnae of Barnard College comprises over 27,000 members from all 50 states and more than 63 countries. Members include all who have completed a year or more of study at Barnard and have left in good standing, as well as those who hold a Barnard degree. There are no alumnae dues. Barnard alumnae regularly receive the Barnard alumnae magazine, *The Barnard Reporter* newsletter, and invitations to alumnae events and other annual academic and career programs.

The Associate Alumnae serves the College in three important ways: keeping local high school students informed about Barnard; interpreting Barnard to the community in general; and voluntarily aiding in support of the College.

Barnard Alumnae Council, a nationwide group of alumnae leaders, meets biennially on campus for the exchange of ideas and to receive updated information on the College so they may continue to represent Barnard effectively.

More than 80 clubs and informal local groups of Barnard alumnae in the United States and abroad form a network that makes it possible for Barnard alumnae to find one another. Alumnae traveling or moving to a new location may call the Office of Alumnae Affairs for alumnae contacts in the United States and abroad.

The Associate Alumnae is governed by a 20-member board elected annually by all Barnard alumnae. Four alumnae are elected to represent the Associate Alumnae on the Board of Trustees of Barnard College. The central office of the Associate Alumnae is the Office of Alumnae Affairs on campus.

Officers of the Associate Alumnae
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Christine Giordano, Vice President
Elaine Schlozman Chapnick, Vice President

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Jill Alcott
Elizabeth Atkins
Georgianna Pimentel Contiguglia
Jolyne Caruso-FitzGerald
Pamela Durborow Gallagher
Evelyn D. Giaccio
Annette Stramesi Kahn
Ruth Horowitz Kargman
Jane Tobey Momo
Pola Auerbach Rosen
Adrienne Aaron Rulnick
Barbara Glaser Sahlman
Marcia Sells

Alumnae Trustees
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Evelyn Langlieb Greer
Carol Murray Lane
Patricia Harrigan Nadosy

SCHOLARSHIP FUNDS

UNRESTRICTED

Mary Allen Fund (1981)
In memory of Ruth Marley.

Neils J. Allison Fund (1964)
From the estate of Beatrice C. Allison.

Arthur G. Altschul Fund (1984)

Helen Goodhart Altschul Fund (1990)
In memory of Helen Goodhart Altschul '07.

Alumnae Fund (1922)

Anna E. Barnard Fund (1899)

Joan H. Baum Fund (1977)

Frances E. Belcher Fund (1963)

Morris and Esther Biederman '31 Fund (1994)

Ruth Marshall Billikopf Fund (1950)

Varian White Blumberg Fund (1952)

Rose and Solomon Blumenthal Fund (1987)

Elizabeth M. Bogardus Fund (1976)

Charles E. Bogert and Anna Shippen Young Bogert Memorial Fund (1913)

Eva-Lena Miller Booth Fund (1932)

Dorothy S. Boyle Fund (1978)

Josephine Brand Fund (1970)

Brearley School Fund (1889)

Florence Mackie Brecht '39 Fund (1993)

Martha Ornstein Brenner Fund (1915)

The Anny Birnbaum Brieger '29 and Edith Birnbaum Oblatt '29 Fund (1992)

Arthur Brooks Fund (1897)

Margaret Bullowa Fund (1979)

Elsa B. Bunn Fund (1980)

Elizabeth Hobe Burnell Fund (1971)

Suzanne Payton Campbell '20 Fund (1992)

Chicago Campaign Fund (1992)

Fanny Steinschneider Clark Fund (1978)

Jennie B. Clarkson Fund (1898)

Class of 1918 Fund (1975)

Class of 1921 Fund (1931)

Class of 1925 Fund (1975)

Class of 1926 Fund (1981)

Class of 1930 Fund (1975)

Class of 1931 Memorial Fund (1981)

Class of 1933 Fund (1973)

Class of 1935 Fund (1975)

Class of 1936 Fund (1971)

Class of 1938 Fund (1989)

Class of 1939 Fund (1990)

Class of 1940 Memorial Fund (1991)

Class of 1943 Fund (1989)

Class of 1947 Memorial Fund (1982)

Class of 1948 Fund (1989)

Class of 1953 Fund (1973)

Class of 1954 Fund (1955)

Class of 1959 Fund (1974)
In memory of Jacqueline Zelniker Radin.

Class of 1963 Fund (1983)

Class of 1964 Fund (1992)

Class of 1974 Fund (1991)

Class of 1981 Fund (1982)

Martine Cobanks Fund (1973)

Beatrice Rosenthal Coleman Scholarship Fund (1991)

Rosalie Colie Fund (1993)

College Bowl Fund (1968)

Barbara Myers Cross Fund (1986)

Yvonne Moen Cumerford Fund (1972)

Caryl M. Curtis Fund (1980)

Vera B. David Scholarships (1962)
In memory of her late husband, John David.

Ethel Dawbarn Fund (1987)

Blanche Heyman Doernberg Fund (1991)

Ada M. Donelle Fund (1948)

L. Adele Dorsett Fund (1971)

Helen Geer Downs Fund (1974)

Drake Scholarships and Fellowships (1992)

Amelia Cary Duncan Fund (1976)

Marie G. Eckhardt Fund (1990)

May Parker Eggleston Fund (1977)

Betty Eisenstadt Fund (1982)
In memory of Sarah and Israel Gillman and of Betty Eisenstadt.

Elizabeth Kramer Emmons Fund (1986)

Sarah Engel Fund (1973)

Laura Teller Ericsson Fund (1976)

Abbe Fessenden '62 Fund (1994)

Margaret Jane Fischer Fund (1968)

Fiske Fund (1895)

Martha T. Fiske Fund (1911)

Edyth Fredericks Fund (1974)

Clara Lillian Froelich Fund (1979)

Ellen V. Futter '71 Fund (1994)

Doris P. Gallert Fund (1970)

Galway Fund (1912)

Helen Jenkins Geer Fund (1940)

Cecile Meister Gilmore and Benjamin Gilmore Fund (1986)

Anita Hyman Glick Fund (1968)

Irma Alexander Goldfrank Fund (1919)

Sarah S. and Louis A. Goldman Fund (1992)

Harriet Wilinsky Goodman and Sylvan A. Goodman Fund (1983)

Elsa Gottlieb Fund (1982)

Graham School Fund (1907)

Blanche Kazon Graubard Fund (1981)

Ethel C. Gray Fund (1973)

Louise H. Gregory Fund (1955)

Hetta Stapff Halloran Fund (1977)

Mary Catlett Hardy Fund (1994)

Harkness Fund (1939)

Jane Harnett Fund (1978)

Helen May Smith Helmle Fund (1973)

Margaret Holland Fund (1975)

Rita Hilborn Hopf Memorial Fund (1966)

Charles Evans Hughes Fund (1952)

Harriet Kaye Inselbuch '62 Fund (1992)

Eleanor Levison Israel Fund (1976)

Lucie Burgi Johnson Fund (1979)

Lily Murray Jones Fund (1950)

The Kahn Fund (1994)

Mildred K. Kammerer Fund (1973)

Peggy King Scholarship Fund (1986)

Mirra Komarovsky Fund (1975)

Lucile Wolf Koshland Fund (1980)

Elsie M. Kupfer Fund (1975)

Margaret Irish Lamont Fund (1978)

Augusta Larned Fund (1924)

Marjorie Hermann Lawrence Fund (1965/67)

Yves LeMay Fund (1982)

Harriett Mooney Levy Fund (1965)

Joan Sperling Lewinson Fund (1955)

Judith Lewittes Fund (1957)

Dora Mei and Tsiang Kwang Li Fund (1994)

Anne Elizabeth Lincoln Fund (1963)

Amy Loveman Fund (1956)
See Prizes, page 299.

Louise Grace Luby and James Luby Fund (1947)

Barbara Scoville Maarschalk Fund (1977)

Frances E. and Harry W. Martin Fund (1986)

Jeanne S. Mattersdorf and Bertha Miller Memorial Fund (1970)

Cecile Lehman Mayer Fund (1962)

Leo Mayer Fund (1972)

Hugh and Mary McCorry Fund (1993)

Adele Duncan McKeown Fund (1973)

Eloise F. McLennan Fund (1987)

Memorial Fund (1954)

Cheryl and Philip Milstein Fund (1992)

Dorothy E. Miner Fund (1977)

Gladys Bateman Mitchell Fund (1980)

William Moir Fund (1912)

Rosalis Van Der Stucken Montgomery '35 Fund (1994)

Gulli Lindh Muller Fund (1972)

Caroline Church Murray Fund (1918)

Annette Florence Nathan Fund (1947)

Dora R. Nevins Fund (1969)

Ann Whitney Olin Fund (1982)

Lucretia Perry Osborn Fund (1940)

Dorothy Brockway Osborne Fund (1976)

Elizabeth Palmer Fund (1972)

Jean T. Palmer Fund (1969)

Josephine Bay Paul Fund (1978)

Carl and Lily Pforzheimer Foundation Fund (1993)

Lucy Powell Fund (1971)

M. Gladys Quinby Fund (1961)

Jacqueline Zelniker Radin Fund (1975)

Eleanor Kaiser Reinheimer Fund (1976)

Eva Rich Fund (1968)

Peter C. Ritchie, Jr., Fund (1937)

Gayle F. Robinson '75 Fund (1993)

Margaret Miller Rogers Fund (1976)

Caterina Ronzoni Fund (1986)

Edith Lowenstein Rossbach Memorial Fund (1959)

Carrie W. and Corine A. Rowe Fund (1979)

Helena Rubinstein Foundation Fund (1992)

Edna Heller Sachs Fund (1955)

May and Edgar Salinger Fund (1971)
In memory of Isaac and Eugenie Herrmann.

Eleanor Butler Sanders Fund (1922)

Anna M. Sandham Fund (1922)

Terry Rose Saunders '64 Fund (1992)

Katherine D. Schlayer Fund (1975)

Schmitt-Kanefent Fund (1931)

Scholarship Fund (1901)

Katherine Flint Shadek Fund (1961)

Dorothy Nolan Sherman Fund (1983)

Marion Berenson Shinn '45 and Richard R. Shinn Fund (1992)

Anne Victoria and Elizabeth Jane Shutkin Fund (1983)

Doris Silbert Fund (1987)

Max Sloman and Jane Stanley Fund (1971)

Emily James Smith Fund (1899)

Frances M. Smith Fund (1974)

Fred Curtis Smith Memorial Fund (1955)

George W. Smith Fund (1906)

Sylvia W. Stark Fund (1981)

C. V. Starr Fund (1983)

Claire Wander Stein Financial Aid Fund (1981)

Edna Phillips Stern Fund (1952)

Eleanor Holden Stoddard Fund (1977)

Isabel Greenbaum Stone Fund (1957)

Fannie Manwaring Sturtevant and Daniel Dwight Sturtevant Fund (1969)

Solon E. Summerfield Foundation Fund (1960)

Anna Stechel Sussner Fund (1993)

Thompson Fund (1993)

Thrift Shop Scholarships (1938)
From the Barnard Scholarship Unit of Everybody's Thrift Shop.

Miriam Tobias Fund (1980)

Veltin School Fund (1905)

Florence Meyer Waldo Fund (1980)

Alma F. Wallach Fund (1951)

Dorothy Calman Wallerstein Fund (1976)

Ella Weed Fund (1895)

Hymen and Helen Werner Fund (1964)

Fern Yates Memorial Fund (1980)

RESTRICTED

Patricia Leigh (Pat) Abbott Fund (1981)
For a student or students who have overcome serious physical difficulties.

Mary Ann Adams & Lily Frances Adams Fund (1991)
Preferably for a student majoring in history or another social science.

Mary Gertrude Edson Aldrich Fund (1916)
To a senior who has shown high moral qualities.

Norma Ketay Asnes '57 Fund (1993)
Preferably for African-American students.

Axe-Houghton Fund (1977)
For juniors or seniors with average of at least 3.0.

Bertha R. Badanes Fund (1966)
For children of New York City schoolteachers, preferably from Brooklyn.

Barnard College Club of Brooklyn Fund (1944)
For a student from Brooklyn.

Barnard College Club of Greater San Francisco Fund (1986)
For a student preferably from the San Francisco Bay area.

Barnard College Club of Houston Fund (1969)
For students from the Houston area.

Barnard College Club of New York Fund (1952)
For a student from outside New York City.

Barnard-in-Westchester Fund (1962)
Preferably for students from Westchester County.

Barnard School Alumnae Fund (1916)
Preferably for nominees of the school.

Willina Barrick Memorial Fund (1936)
By the College Club of Jersey City for a graduate of a Jersey City secondary school.

The Annette Kar Baxter Memorial Fund (1984)
In memory of Annette Kar Baxter,'47, by her colleagues, students, classmates, and other friends. For students who have distinguished themselves in the study of some aspect of women's experience.

Irving Berlin Fund (1950)
For one or more Barnard students of foreign-born parentage.

Doris E. Fleischman Prize (1992)
For the winner of the Doris E. Fleischman '13 Prize (see page 299), or, if that student is not in need of financial aid, to the most outstanding writer among English majors.

June Rossbach Bingham Fund (1976)
For a Barnard student majoring in English, preferably one who is interested in pursuing a writing career.

Ida Blair Memorial Fund (1937)
Preferably for a student in political science.

Niña Thomas Bradbury '42 Fund (1992)
Preferably for a student interested in teaching.

Thornton F. Bradshaw Fund (1986)
For transfer students.

Naomi Levin Breman '71 Fund (1992)
Preferably for students majoring in history or economics.

Alice Marie-Louise Brett Fund (1930)
For a senior specializing in French.

William Tenney Brewster and Anna Richards Brewster Fund (1961)
To be awarded in amounts not less than $1,000, preferably.

Anne Brown Endowment Fund (1939)
For students from New York City.

Burbank Fund (1992)
For one or more worthy students pursuing the study of history, literature, or music of the United States, or any combination thereof.

Ruth L. Byram '24 Fund (1991)
Preferably for students interested in teaching or majoring in math.

Carpentier Residence Fund (1919)
For students who are not residents of New York City or its vicinity.

Alice Corneille Cardozo '36 Fund (1994)
Preferably for students in the fine arts or music.

Therese Cassel Fund (1973)
For students born in New York City, preferably those whose mothers were born in New York City and attended Barnard College.

Lois and James Champy Fund (1992)
Preferably for African-American students who demonstrate special need as well as ability.

Eliza Taylor Chisholm Memorial Fund (1901)
Preference to nominees of the Alumnae Association of Miss Chisholm's School.

C.I.T. Financial Corporation Fund (1979)
In honor of Eleanor Thomas Elliott '48. For a student of economics, mathematics, or political science.

Class of 1919 Decennial Fund (1929)
For a resident student.

Class of 1926 Emergency Student Aid Fund (1976)
For emergency financial aid.

Class of 1949 Fund (1974)
For an incoming first-year student.

Mrs. Henry Clarke Coe Fund (1910)
By the New York City Colony of the National Society of New England Women, to a student from New England or of New England parentage.

Charles A. Dana Fund (1982)
For students designated Dana Scholars, as specified in the guiding principles for the program.

Babette Deutsch Fund (1978)
For Barnard students who have demonstrated exceptional ability in poetry, criticism, or translation.

Marie Ward Doty Fund (1981)
Preferably to daughters of parents in law enforcement or related fields.

Augusta Salik Dublin Fund (1960)
For a student in a field of social welfare.

Elizabeth M. Edersheim '85 Memorial Fund (1992)
For juniors majoring in mathematics or English, preferably mathematics, to be renewed for an additional year if academic standards are maintained.

Educational and Cultural Trust Fund of the Electrical Industry (1951)
For daughters of members of Local Union No. 3 of the International Brotherhood of Electrical Workers.

May Parker Eggleston Fund (1972)
For a science student, preferably one planning to attend medical school.

Christine H. Eide Memorial Fund (1968)
For juniors majoring in anthropology or English.

Eleanor Thomas Elliott Fund (1973)
For winners of the Eleanor T. Elliott Prize (see page 297) and/or for other deserving students.

Gladys Renshaw Esterbrook Fund (1958)
Preferably for English or French majors.

Marion Pratt Fouquet Fund (1961)
Preferably for older students.

Gentile Family Fund (1992)
Preferably for inner-city students.

German Fund (1950)
For a German major. See also Prizes, page 300.

Virginia C. Gildersleeve Fund (1968)
For a major in the humanities, preferably English.

Virginia C. Gildersleeve International Fund (1937)
For a foreign student.

Elizabeth Hughes Gossett Scholars (1981)
For freshmen or sophomores for academic achievement, demonstrated inclination toward public service, and leadership qualities.

Julius Held Fund (1970)
For students majoring in art history.

Janet Williams Helman '56 Fund (1993)
Preferably for minority students from Chicago, Illinois.

Dominique Henrey Memorial Fund (1990)
For a first-year student who has an interest in creative writing.

Emma Hertzog Fund (1904)
For a graduate of Yonkers High School.

Alena Wels Hirschorn '58 Fund (1986)
For the winner of the Alena Wels Hirschorn essay prize, or to the most outstanding economics major.

Marion Alice Hoey Fund (1944)
Preferably for a student in Greek and Latin.

Hannah and Henry Hofheimer Fund (1975)
For a freshman.

Holland Dames Fund (1915)
For a descendant of early Dutch settlers.

Lillia Babbitt Hyde Fund (1953)
For premedical students.

Charlotte Louise Jackson Fund (1928)
For a graduate of Yonkers High School.

Mary E. Larkin Joline Fund (1927)
For a student specializing in music.

Werner Josten Fund (1955)
Preferably for a student in music.

Helene L. Kaplan '53 Fund (1993)
Preferably for students in the metropolitan New York area.

Jessie Kaufmann Fund (1902)
For a student who has no relative able to offer financial assistance.

Kimball Fund (1938)
For a student from Spain or one of the Spanish-American countries for study at Barnard or elsewhere, under the direction of the Barnard Department of Spanish.

Eleanor Kinnicutt Fund (1911)
For a sophomore of exceptionally high standing.

John A. Kouwenhoven Fund (1991)
Preferably for an English major.

Henry C. Kuever and Frederich W.A. Fuller Fund (1981)
Preferably for a student majoring in music, or in Greek or mathematics.

Wei-Ven Yao Kung Fund (1992)
Preferably for students of Asian background.

Dr. Ann G. Kuttner Fund (1969)
Preferably to premedical students.

Eugene M. Lang Fund (1988)
Preferably for minority students.

Marjorie de Loynes Lange '50 Fund (1993)
Preferably for a student studying music.

Hortense Owen Lazar '26 Fund (1991)
Preferably for students who have demonstrated both exceptional promise in the field of creative writing and a practical concern for others.

Judith M. Lebensold Fund (1993)
Preferably for students majoring in political science or planning a career in law.

Ethel Stone LeFrak Prize and Scholarship (1986)
To a student for excellence in a field of the arts, the balance as a grant to the prize recipient or a meritorious alternate.

Toby Levy '72 Architecture Fund (1993)
For students studying architecture.

Bernard Liberman Fund (1979)
For premedical students.

Carolina Marcial-Dorado Fund (1953)
For a student from Spain, or to a Spanish major continuing graduate studies in the United States or abroad, or to a student who is majoring in Spanish.

Raphael Marino Fund (1977)
For a student proficient in Italian language, literature, art, or culture.

Eugene F. and Minnie Gouger McGowan Fund (1955)
Preferably for students from Mecklenburg County, North Carolina.

Fannie Moulton McLane Fund (1961)
For citizens of the United States preferably of Colonial or Revolutionary ancestry, or the descendants of a Civil War soldier.

Mrs. Donald McLean Fund (1906)
For a student of history (chiefly that of the United States).

Barbara and Marilyn Meyers Fund (1986)
Preferably for students majoring in writing, music, dance, or drama.

Alice Miller Memorial Scholarship Fund (1989)
Preference to premedical students.

Ferry Starr Morgan Fund (1959)
For a student majoring in music or philosophy.

Lawrence Morris Fund (1968)
Preferably for a nominee of the New York City Mission Society.

Ruth Day Moser Fund (1983)
For seniors majoring in sociology.

Lucy Moses Fund (1975)
For a premedical student. See Prizes, page 298.

Ann Newman Fund (1986)
For study abroad.

The New York Times Fund (1990)
For minority students.

Eileen O'Brien '48 Fund (1994)
Preferably for a student studying in the arts.

Julia Fisher Papper Fund (1974)
For a senior of superior academic standing and high motivation.

Mary Barstow Pope Fund (1913)
For a nominee of a self-perpetuating committee representing the founders.

Public Service Fund (1934)
By the Women's Organization for National Prohibition Reform for students in their junior or senior years who show special promise for public service.

Lucille Pulitzer Fund (1899)
Three are restricted to students from the City of New York, eight are for resident students.

Basil Rauch Memorial Fund (1992)
For students majoring in history or in political science with an interest in foreign affairs.

Gladys A. Reichard Anthropology Scholarship Fund (1992)
For students majoring in anthropology, or, if there are no such eligible students, for students majoring in other social sciences.

Marie Reimer Fund (1953)
See Prizes, page 298.

Amelia Agostini de del Rio Fund (1955)
For a student from Puerto Rico or a student who is majoring in Spanish.

Lesley Jane Rosen Memorial Fund (1975)
For a student who shows leadership quality and whose subject of interest is urban studies and/or political science.

Dr. Harry Rosenstein Fund (1967)
For a premedical student.

Doris S. Rosenthal '35 Science and Math Fund (1993)
For students majoring in science or mathematics.

Doris Schloss Rosenthal Fund (1981)
For students majoring in courses in the arts.

Joan Rosof Fund (1964)
For students from the State of New York.

Felix St. George Scholarship (1955)
For an incoming freshman studying physics, chemistry, or biology.

Dorothy K. Scheidell Fund (1965)
Preferably for premedical students.

Lillian Schoedler Fund (1967)
For students who show promise of civic leadership.

Margarete Schwabe Fund (1974)
For premedical students with outstanding ability and idealism.

Ruth Gould Scoppa '37 Fund (1985)
Preferably for a student majoring in English.

Henry Sharp Memorial Fund (1992)
For a student who has or will take one basic course in geology, geography, or environmental science.

Roslyn S. Silver Scholarship Program (1982)
For junior and senior students preparing for careers in medical research.

Clarice Ann Smith Fund (1973)
For students of literature and composition.

Marion Wesley Smith Fund (1978)
For students majoring in anthropology.

Hilda Staber Fund (1967)
For foreign students.

Estella Raphael Steiner Fund (1972)
For a senior in biological sciences who plans to engage in research in that field.

Beatrice L. Stern Memorial Fund (1977)
For juniors and seniors in the life sciences or in the area of intergroup relations with special emphasis on those problems affecting minority welfare and acceptance in the American scene.

Marion Levi Stern Fund (1977)
Preferably for students in the social sciences.

Simon and Elaine Strauss Fund (1981)
For disabled students.

Emma A. Tillotson Fund (1910)
For a sophomore of exceptionally high standing.

SCHOLARSHIP FUNDS

Clara Buttenwieser Unger Memorial Fund (1938)
For a senior in political science who shows promise of ability to contribute to the promotion and perpetuation of true democracy under our Constitution.

Helen Elizabeth Vosburgh Fund (1934)
Preference to a self-supporting student.

Mary Voyse Fund (1989).
For a student from Yonkers.

Walter A. Wagener Memorial Fund (1984)
For students majoring in a field of the arts.

Gertie Emily Gorman Webb Fund (1953)
For a nominee of the Department of History.

May Hessberg Weis Fund (1981)
For students in environmental ethics and conservation.

Esther Lensh Weisman Fund (1979)
Preferably for a student majoring in English.

Marian Churchill White Fund (1975)
For the winner of the Marian Churchill White Prize (see page 298), or an alternate with similar qualifications.

Allison Wier Fund (1977)
For students who are residents of Westchester County.

Martin Wong Fund (1993)
For a Barnard student studying in France.

Elsa P. Wunderlich Fund (1978)
For a German exchange student.

Richard P. Youtz Fund (1987)
For students in the Resumed Education Program.

Alma Gluck Zimbalist Fund (1940)
For students in political science.

Gertrude Bunger Zufall Fund (1987)
For a senior premedical student. See Prizes, page 298.

LOAN FUNDS

The following loan funds are administered by the Committee on Financial Aid in accordance with terms specified by the donors and are regularly assigned as part of students' financial aid awards.

Associate Alumnae Student Loan Fund

Barnard College Club of Cleveland Loan Fund

Barnard College Loan Fund

Ann Susan Becker Memorial Loan Fund

Thomas F. Clark Student Fund (1928)

Marilyn Chin Loan Fund

Pauline Hirschfeld Loan Fund

Gertrude C. Hitchcock Loan Fund

Adelaide Le Ciercq Loan Fund

Swope Loan Fund

Tudor Foundation Student Loan Fund

HONORS

The following awards, administered according to the provisions of their respective donors, were established to honor those who have shown exceptional distinction in their studies.

FELLOWSHIPS

Associate Alumnae of Barnard College Graduate Fellowship (1963)
For a graduating senior or graduate who shows exceptional promise in her chosen field of work. Information and applications may be obtained in the Alumnae Office.

Anne Davidson Fellowship (1971)
For graduating seniors who will pursue graduate study in conservation at a university of approved standing.

George Welwood Murray Graduate Fellowship (1930)
For graduating seniors who show promise of distinction in the humanities and/or the social sciences and who will pursue graduate study at a university or college of approved standing.

Lillian Niederman Fellowship Award (1984)
By Dr. Miriam S. Harris, in memory of her mother, Lillian Niederman Shapiro. For a graduating senior who gives promise of distinction as physician and humanist.

Josephine Paddock Fellowship (1976)
For graduating seniors who show promise of distinction in such fields of graduate study in art as the faculty shall determine. Holders are to pursue studies, preferably abroad, at a college or university of approved standing.

Grace Potter Rice Fellowship (1935)
For graduating seniors who show promise of distinction in the natural sciences or mathematics and who will pursue graduate study at a university or college of approved standing.

Alpha Zeta Club Graduate Scholarship (1936)
For graduating seniors who show promise of distinction or to outstanding recent Barnard graduates who are candidates for higher degrees.

William Mason Scholarship (1928)
Awarded periodically on recommendation of the Department of Music to a member of the graduating class of Barnard or Columbia College for graduate studies in music.

GENERAL

Estelle M. Allison Prize (1937)
For excellence in literature.

Mary E. Allison Prize (1937)
For general excellence in scholarship.

Annette Kar Baxter Memorial Fund Prize (1984)
For juniors who have distinguished themselves in the study of some aspect of women's experience.

Frank Gilbert Bryson Prize (1931)
For a senior who, in the opinion of the class, has given conspicuous evidence of unselfishness and who has made the greatest contribution to Barnard during the college years.

Eleanor Thomas Elliott Prizes (1973)
Two prizes to juniors chosen by the Honors Committee from among the five most outstanding students in the class based upon overall academic record, integrity, and good citizenship in the College.

Katherine Reeve Girard Prize (1964)
For a student whose interests are in the international aspects of a major.

Ann Barrow Hamilton Memorial Prize in Journalism (1978)
For a graduating senior who will pursue a career in journalism.

Alena Wels Hirschorn Prize (1986)
For a senior majoring in economics, with preference for a student who has a strong interest in English literature and/or in pursuing a career in journalism.

Lucyle Hook Travel Grants (1987)
To promising individuals with enriching, eclectic projects who demonstrate originality and self-direction.

Jo Green Iwabe Prize (1986)
To a student with a disability, for active participation in the academic and extracurricular life of the College.

Ethel Stone LeFrak Prize (1986)
For excellence in a field of the arts.

Harry Salzman Internship Fund (1982)
An internship in Washington, D.C.

BY ACADEMIC AREA

Schwimmer Prize (1986)
For an outstanding graduating senior in the humanities.

Bernice G. Segal Summer Research Internships (1986)
One or more internships for supervised research in the sciences during the summer.

Marian Churchill White Prize (1975)
For an outstanding sophomore who has participated actively in student affairs.

PREMEDICAL

Helen R. Downes Prize (1964)
For graduating seniors who show promise of distinction in medicine or the medical sciences.

Ida and John Kauderer Prize (1973)
For premedical students majoring in chemistry.

The Barbara Ann Liskin Memorial Prize (1995)
For a premedical student committed to women's issues and to a humanistic approach to patient care.

Lucy Moses Award (1975)
For a premedical student likely to provide service to the medically underserved.

Gertrude Bunger Zufall Award (1987)
For a premedical student entering her senior year.

ART HISTORY

Nancy Hoffman Prize (1983)
For students who plan to enter museum or gallery work or art conservatorship.

Virginia B. Wright Art History Prize (1969)
For promising seniors majoring in art history.

ASIAN-MIDDLE EASTERN CULTURES

Taraknath Das Foundation Prize in Asian and Middle Eastern Studies (Columbia University)
To a student of Barnard College, Columbia College, or the School of General Studies, for excellence in Asian and Middle Eastern Studies.

BIOLOGICAL SCIENCES

Maura Shannon Barrett Internships (1993)
In memory of Maura Shannon Barrett '83. For students well based in the humanities who will apply their scientific knowledge to biology and/or health problems.

Edna Henry Bennett Memorial Grants (1927)
For work at a biological laboratory offering summer courses.

Herbert Maule Richards Grants (1933)
For botanical research, under the direction of an approved institution.

Donald and Nancy Ritchie Grants (1979)
For biological study or research.

Hermann Botanical Prize (1892)
For an undergraduate student proficient in biology.

Spiera Family Prize (1986)
For promise of excellence by a student majoring in biological sciences.

Constance Von Wahl Prize (1915)
For advanced work in biology.

CHEMISTRY

American Chemical Society's Division of Analytical Chemistry Award
For outstanding work in analytical chemistry.

American Chemical Society's Division of Polymer Chemistry Award
For outstanding work in organic chemistry.

American Institute of Chemists, New York Chapter Prize
For an outstanding student of chemistry.

CRC Press First-Year Chemistry Achievement Award
For outstanding achievement in first-year chemistry.

Marie Reimer Scholarship Fund Prize (1953)
Awarded at the end of the junior year to an outstanding major in chemistry.

ECONOMICS

American Statistical Association, New York Area Chapter Prize (1960)
For an outstanding student in statistics.

Alena Wels Hirschorn Prize (1986)
To a junior for the best essay on the subject of domestic or international economics.

Beth Niemi Memorial Prize (1981)
For an outstanding senior majoring in economics.

Katharine E. Provost Memorial Prize (1949)
For superior work by an undergraduate major in economics.

Sylvia Kopald Selekman Prize (1960)
For the first-year student who is doing the best work in introductory economics.

EDUCATION

Stephanie Kossoff Prize (1972)
For the student who has made the most noteworthy contribution or meaningful endeavor in childhood education.

ENGLISH

Doris E. Fleischman Prize (1992)
For the Barnard student judged to have written the best short piece, fiction or nonfiction.

Saint Agatha Muriel Bowden Memorial Prize (1971)
For superior proficiency in the study of Chaucer and medieval literature.

W. Cabell Greet Prize (1974)
For excellence in English.

William Haller Prize (1987)
For excellence in the study of English literature.

Amy Loveman Memorial Prize (1956)
For the best original poem by an undergraduate.

Lenore Marshall Barnard Prizes (1975)
For both poetry and prose of distinction.

Sidney Miner Poetry Prize (1962)
For the senior major who has shown distinction in the reading, writing, and study of poetry.

Peter S. Prescott Prize for Prose Writing (1992)
For a work of prose fiction which gives the greatest evidence of creative imagination and sustained ability.

Helen Prince Memorial Prize (1921)
For excellence in dramatic composition.

Stains-Berle Memorial Prize in Anglo-Saxon (1968)
For excellence in Anglo-Saxon language and literature.

Academy of American Poets Prize (Columbia University)
For the best poem or group of poems by a student.

Bunner Medal (Columbia University)
To the candidate for a Columbia degree who shall present the best essay on any topic dealing with American literature.

Helene Searcy Puls Prize (1984)
For the best poem in an annual student competition.

Howard M. Teichmann Writing Prize (1986)
To a graduating senior for a written work or body of work that is distinguished in its originality and excellent in its execution.

Van Rensselaer Prize (Columbia University)
To the candidate for a Columbia degree who is the author of the best example of English lyric verse.

George Edward Woodberry Prize (Columbia University)
To an undergraduate student of the University for the best original poem.

ENVIRONMENTAL SCIENCE

Lillian Berle Dare Prize (1974)
For the most proficient Barnard senior who will continue to study in geography or a related field.

Henry Sharp Prize (1970)
For an outstanding student majoring in environmental science.

FRENCH

Helen Marie Carlson French Prize (1965)
For the best composition in fourth-term French.

Isabelle de Wyzewa Prize (1972)
For the best composition in the French course *Masterpieces of Literature from the Middle Ages to the Twentieth Century.*

Frederic G. Hoffherr French Prize (1961)
To a student in intermediate French for excellence in oral French.

Linda Joan Israel Prize in French (1977)
To a French major, preferably a senior, for work done in *Advanced Oral French* or *Advanced Translation into French.*

Eleanor Keller Prizes (1968)
For juniors in French literature and seniors in French culture.

Rosemary Thomas Prize in French (1966)
For evidence of a special sensitivity and awareness in the study of French poetic literature.

GERMAN

Dean Prize in German (1952)
For the senior who has throughout college done the best work in German language and literature.

German Scholarship Fund Prize (1950)
Awarded at the end of the junior year to an outstanding major in German.

Louise Stabenau Prize in German (1988)
Awarded to a junior or senior major for excellence in oral German.

GREEK AND LATIN

John Day Memorial Prize (1986)
For a high-ranking sophomore in the field of Greek and Latin.

Earle Prize in Classics (Columbia University)
For excellence in sight translation of passages of Greek and Latin.

Benjamin F. Romaine Prize (Columbia University)
For proficiency in Greek language and literature.

Jean Willard Tatlock Memorial Prize (1917)
For the undergraduate student most proficient in Latin.

HISTORY

Eugene H. Byrne History Prize (1960)
For superior work by a history major.

Early American History Award (1993)
For excellence in early American history.

Ellen Davis Goldwater History Prize (1982)
For superior work by a history major.

ITALIAN

Bettina Buonocore Salvo Prize (1966)
For a student of Italian.

Speranza Italian Prize (1911)
For excellence in Italian.

MATHEMATICS

Margaret Kenney Jensen Prize (1973)
To first-year students, sophomores, and juniors for excellence in mathematics.

Kohn Mathematical Prize (1892)
To a senior for excellence in mathematics.

MUSIC

Robert Emmett Dolan Prize (Columbia University)
To a student in any division of the University for instruction on a chosen musical instrument.

Ethel Stone LeFrak Prize (1986)
For a graduating senior whose creative writing in music shows promise of distinction.

PHILOSOPHY

William Pepperell Montague Prize (1949)
For promise of distinction in the field of philosophy.

Gertrude Braun Rich Prize (1986)
For promise of excellence by a student majoring in philosophy.

PHYSICAL EDUCATION

Margaret Holland Bowl (1974)
For excellence in leadership and participation in Barnard intramurals and recreation.

Marion R. Philips Scholar-Athlete Award (1981)
To the senior female winner of a varsity letter who has achieved the highest cumulative academic average and who has participated on a Columbia University team for at least two years.

Seven Sisters Senior Scholar-Athlete Award (1988)
For scholarly achievement and participation in Seven Sisters Competition.

Tina Steck Award (1980)
For the most outstanding member of the Swimming and Diving Team.

PHYSICS

Henry A. Boorse Prize (1974)
To a graduating Barnard senior, preferably a major in the department, whose record in physics shows promise of distinction in a scientific career.

POLITICAL SCIENCE

Phoebe Morrison Memorial Prize (1969)
For a political science major planning to attend law school.

James Gordon Bennett Prize (Columbia University)
For the best essay, upon some subject of contemporary interest in the domestic or foreign policy of the United States.

Caroline Phelps Stokes Prize (Columbia University)
For the best essay on any topic approved by the Stokes Prize Committee, which has been presented in course or seminar work.

PSYCHOLOGY

American Statistical Association, New York Area Chapter Prize (1960)
See Economics listing.

Ida Markewich Lawrence Prize (1982)
For the best paper in psychology, preferably child psychology, by a major.

RELIGION

Samuel Dornfield Prize (1979)
For work in Old Testament or ancient Near Eastern studies that reflects special sensitivity and academic excellence.

Caroline Gallup Reed Prize (1916)
For outstanding work either in the field of the origin of Christianity and early church history or in the general field of the history and theory of religion.

RUSSIAN

Alice Levin Sokolik Prize in Russian (1976)
For the student who, in the course of her studies, has demonstrated the greatest love for the Russian language and literature.

SPANISH

John Bornemann Prize in Spanish (1976)
For superior performance in the first- or second-year language courses.

Eugene Raskin Prize
For the best essay in fourth-term Spanish.

Spanish Prize (1959)
For a Spanish major who has done the most distinguished work in Spanish language and literature.

Ucelay Recitation Prize
For the best recitation of a poem or dramatic passage in Spanish.

Susan Huntington Vernon Prize (Seven Colleges)
For the best original essay written in Spanish by a senior whose native language is not Spanish.

THEATRE

Kenneth Janes Prize in Theatre (1987)
For a Barnard junior or senior who has contributed notably to the theatre program of the Minor Latham Playhouse.

WOMEN'S STUDIES

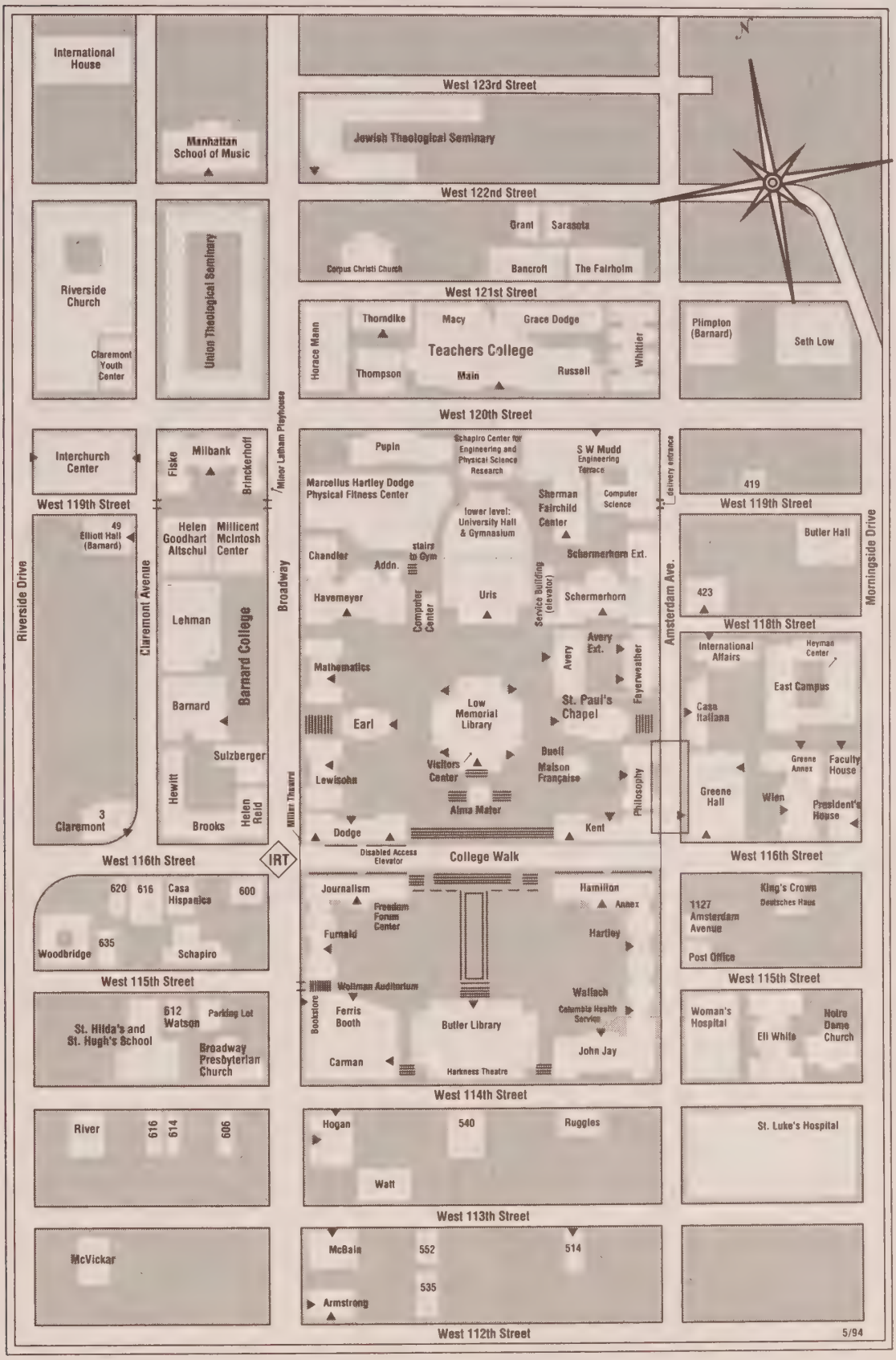
Bessie Ehrlich Memorial Prize (1980)
For an oral history project concerning a female relative of a preceding generation, in conjunction with the Women's Studies Department.

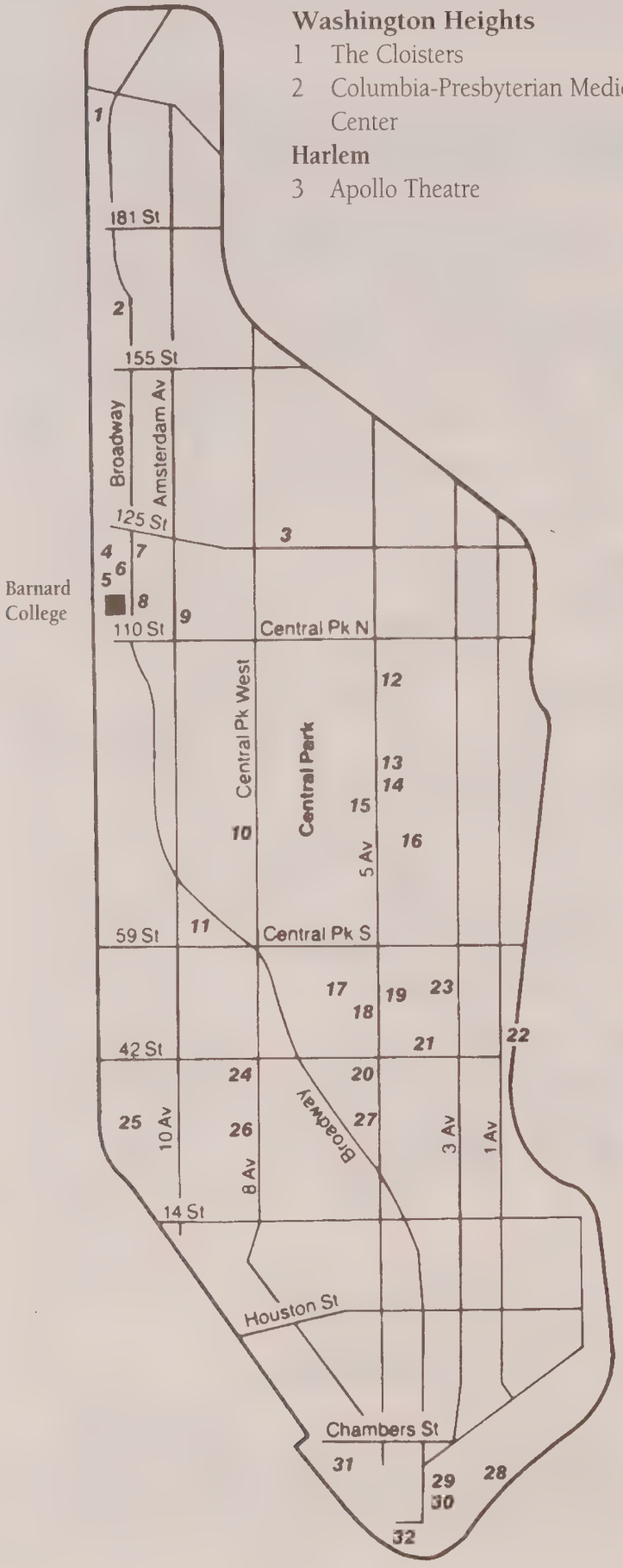
Jane S. Gould Prize (1982)
For an outstanding senior essay by a Women's Studies major.

	1889 to 1890	1899 to 1900	1909 to 1910	1919 to 1920	1929 to 1930	1934 to 1935	1944 to 1945	1954 to 1955	1964 to 1965	1974 to 1975	1984 to 1985	1989 to 1990	1993 to 1994	1994 to 1995
Undergraduates, Regular														
Seniors	—	40	62	87	227	181	208	245	355	572	559	538	552	571
Juniors	—	40	122	190	237	220	314	340	414	554	563	527	567	590
Sophomores	—	37	109	193	247	226	314	317	391	488	512	552	514	540
First-year Students	14	54	188	224	311	267	324	304	415	437	531	487	550	550
Unclassified Students	—	—	—	—	54	103	56	1	8	—	—	—	—	—
	14	171	481	694	1076	997	1216	1207	1583	2051	2165	2104	2183	2251
Special Students														
Matriculated	—	21	24	39	—	—	—	—	—	—	—	—	—	—
Non-matriculated	—	—	30	22	28	29	21	20	19	33	22	18	14	20
Departmental (1889-1896)	22	—	—	—	—	—	—	—	—	—	—	—	—	—
Music Students (1896-1905, 1914-1915)	—	41	—	—	—	—	—	—	—	—	—	—	—	—
	22	62	54	61	28	29	21	20	19	33	22	18	14	20
Graduate Students														
(1890-1900)	—	82	—	—	—	—	—	—	—	—	—	—	—	—
Total Registration	36	315	535	755	1104	1026	1237	1227	1602	2084	2187	2122	2197	2271
Degrees Conferred														
A.B.	—	39	88	139	247	221	270	258	367	497	612	541	544	528
B.S. (1909-1918)	—	18	2	5	—	—	—	—	—	—	—	—	—	—
A.M. (1898-1900)	—	1	—	—	—	—	—	—	—	—	—	—	—	—
Ph.D. (1899-1900)	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Total Bachelor's Degrees conferred 1893-1994: A.B., 27,952; B.S., 77
These figures represent registration in the Autumn term.

COLUMBIA UNIVERSITY
THE MORNINGSIDE CAMPUS & ENVIRONS





Washington Heights

1 The Cloisters

2 Columbia-Presbyterian Medical Center

Harlem

3 Apollo Theatre

Morningside Heights

4 Manhattan School of Music

5 Riverside Church

6 Union Theological Seminary

7 Jewish Theological Seminary

8 Columbia University

9 Cathedral of St. John the Divine

Upper West Side

10 Museum of Natural History

11 Lincoln Center

Upper East Side

12 Museum of the City of New York

13 Cooper Hewitt Museum

14 Guggenheim Museum

15 Metropolitan Museum of Art

16 The Whitney Museum

Midtown

17 Museum of Modern Art

18 Rockefeller Center

19 St. Patrick's Cathedral

20 N.Y. Public Library

21 Grand Central Station

22 United Nations

23 Citicorp Center

24 Port Authority Bus Terminal

25 Jacob Javits Convention Center

26 Pennsylvania (Train) Station and Madison Square Garden

27 Empire State Building

Wall Street Area

28 South Street Seaport

29 Wall Street

30 New York Stock Exchange

31 World Trade Center

32 Battery Park



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NOTES

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NOTES

In accordance with its own values and with Federal, State, and City statutes and regulations, Barnard does not discriminate in admissions, employment, programs, or services on the basis of race, color, creed, national origin, sexual orientation, or disability.

This catalogue is intended for the guidance of persons applying for or considering application for admission to Barnard and for the guidance of Barnard students and faculty. The catalogue sets forth in general the manner in which the College intends to proceed with respect to the matters set forth herein, but the College reserves the right to depart without notice from the terms of this catalogue. This catalogue is not intended to be and should not be regarded as a contract between Barnard College and any student or other person.



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